



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 178917**

**TO: Stephen Kapushoc**  
**Location: REM-3A60/2C70**  
**Art Unit: 1634**  
**Friday, February 17, 2006**  
**Case Serial Number: 10/805973**

**From: Toby Port**  
**Location: Biotech-Chem Library**  
**REM-1A59**  
**Phone: 571-272-2523**

**toby.port@uspto.gov**

### **Search Notes**

**Examiner Kapushoc,**

**See attached results.**

**If you have any questions about this search feel free to contact me at any time.**

**Thank you for using STIC search services!**

**Toby Port**  
**X22523**

**This Page Blank (uspto)**

178917

file!  
3-22-04

SEQ ID NOs: 1, (2), (3), 4, 5, (7), 12

mis match

A hand-drawn sketch of a geological feature, possibly a fault or boundary. It shows a diagonal line with several small circles or dots along it. To the left of the line, there are labels 'PTO', '0', and '-1'. To the right, there is a label '2'.

12

1-CM-F  
12-CM-R  
+ 3 MU-F  
+ 4-WT-F } internal mismatches

(C D-F)

+ 7 D-R - mismatch @ 21

12 1D-mutant seq. - w0357  
A4210408  
A4233827  
w020030722

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FEB - 8 2006  
INTELLIGENCE DIVISION  
(STIC)

\*\*\*\*\*

Vendors and cost where applicable

STN: \_\_\_\_\_

DIALOG: \_\_\_\_\_

QUESTEL/ORBIT: \_\_\_\_\_

LEXIS/NEXIS: \_\_\_\_\_

SEQUENCE SYSTEM: \_\_\_\_\_

WWW/Internet: \_\_\_\_\_

Other (Specify): \_\_\_\_\_

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GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 752.521 Seconds  
(without alignments)  
1586.285 Million cell updates/sec

Title: US-10-805-973-2

Perfect score: 21

Sequence: 1 gtggacaagaacttgcgtg 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

GenEmbl.\*

1: gb\_ba.\*

2: gb\_in.\*

3: gb\_env.\*

4: gb\_on.\*

5: gb\_ov.\*

6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pr.\*

9: gb\_ro.\*

10: gb\_sts.\*

11: gb\_sy.\*

12: gb\_un.\*

13: gb\_vi.\*

14: gb\_htg.\*

15: gb\_pl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	100.0	2002	15	AF487459
2	21	100.0	2002	15	AF488771
3	19.4	92.4	2233	15	AY885675
4	19.4	92.4	2251	15	AY885673
5	19.4	92.4	2279	6	BD169500
6	19.4	92.4	2279	6	AX300475
7	19.4	92.4	2279	15	AB049823
8	19.4	92.4	2286	15	AY885674
9	19.4	92.4	2301	6	AX300473
10	19.4	92.4	2301	15	AB049822
11	19.4	92.4	110000	15	AP008208_183
12	19.4	92.4	145423	15	AP005841
13	19.4	92.4	153252	15	AP004861
14	19	90.5	226898	14	AC098510
15	18.4	87.6	110000	15	AP008217_257
16	18.4	87.6	122163	15	AC125783
17	17.8	84.8	601	6	AR661916
18	17.8	84.8	601	6	AR668311

c 19	17.8	84.8	1243	6	AX646151
c 20	17.8	84.8	1243	8	AB065875
c 21	17.8	84.8	1502	6	AX646399
c 22	17.8	84.8	1502	8	AB065957
c 23	17.8	84.8	15595	6	AR659775
c 24	17.8	84.8	34976	9	AX936344
c 25	17.8	84.8	56662	8	AP001575
c 26	17.8	84.8	96071	9	AX936349
c 27	17.8	84.8	104776	8	AC022424
c 28	17.8	84.8	104818	14	AC026690
c 29	17.8	84.8	133205	14	AP002363
c 30	17.8	84.8	152248	14	AC027522
c 31	17.8	84.8	152754	8	AC099652
c 32	17.8	84.8	154016	14	AC091311
c 33	17.8	84.8	156684	14	AP002787
c 34	17.8	84.8	159853	8	AC010451
c 35	17.8	84.8	160280	14	AC146628
c 36	17.8	84.8	170821	9	AL645626
c 37	17.8	84.8	172487	8	AP001153
c 38	17.8	84.8	172655	14	AC146627
c 39	17.8	84.8	174049	14	AC136031
c 40	17.8	84.8	174151	9	AL672050
c 41	17.8	84.8	178483	14	AC147399
c 42	17.8	84.8	178630	14	AC109478
c 43	17.8	84.8	181910	9	AL672179
c 44	17.8	84.8	182231	14	AC027011
c 45	17.8	84.8	184662	9	AX936287
c 46	17.8	84.8	188781	9	CR354601
c 47	17.8	84.8	191603	9	AL713974
c 48	17.8	84.8	198614	9	CR954961
c 49	17.8	84.8	206988	9	AL929008
c 50	17.8	84.8	208772	14	AC162396
c 51	17.8	84.8	208918	14	AX649509
c 52	17.8	84.8	209986	9	AL670953
c 53	17.8	84.8	216580	14	CR954969
c 54	17.8	84.8	218530	14	AC103044
c 55	17.8	84.8	220714	14	AX936300
c 56	17.8	84.8	223041	14	AC144469
c 57	17.8	84.8	224380	14	AC098249
c 58	17.8	84.8	227366	14	AC118100
c 59	17.8	84.8	233474	9	AX927321
c 60	17.8	84.8	235150	14	AC095625
c 61	17.8	84.8	239553	14	AC098659
c 62	17.8	84.8	240896	14	CR954967
c 63	17.8	84.8	254713	14	AC111636
c 64	17.8	84.8	279170	14	AC127645
c 65	17.4	82.9	607	5	S66109
c 66	17.4	82.9	1100	8	AF286696
c 67	17.4	82.9	2100	8	AK024988
c 68	17.4	82.9	14667	8	AY851164
c 69	17.4	82.9	53035	14	AC104987
c 70	17.4	82.9	95090	8	AC125415
c 71	17.4	82.9	118759	8	AC129917
c 72	17.4	82.9	119050	8	AC127024
c 73	17.4	82.9	141466	14	AC110673
c 74	17.4	82.9	155895	5	AX470221
c 75	17.4	82.9	158797	15	AY530951
c 76	17.4	82.9	163964	8	AL356214
c 77	17.4	82.9	173042	8	AB124586
c 78	17.4	82.9	180537	14	AC023266
c 79	17.4	82.9	183864	8	AC090984
c 80	17.4	82.9	185839	14	AC023278
c 81	17.4	82.9	187787	9	AC121802
c 82	17.4	82.9	192070	8	AC090616
c 83	17.4	82.9	193167	14	AC117938
c 84	17.4	82.9	196626	14	AC158034
c 85	17.4	82.9	204482	8	AC147227
c 86	17.4	82.9	206102	9	AC027131
c 87	17.4	82.9	221860	14	AC162822
c 88	17.4	82.9	222757	14	AC114137
c 89	17.4	82.9	223990	14	AC096396
c 90	17.4	82.9	225287	14	AC127530
c 91	17.4	82.9	232468	14	AC137241

AX646151	Sequence
AB065875	Homo sapi
AX646399	Sequence
AB065957	Homo sapi
AR659775	Sequence
AX936344	Mouse DNA
AP001575	Homo sapi
AX936349	Mouse DNA
AC022424	Homo sapi
AC026690	Homo sapi
AP002363	Homo sapi
AC027522	Homo sapi
AC099652	Homo sapi
AC091311	Mus muscu
AP002787	Homo sapi
AC010451	Homo sapi
AC146628	Papio anu
AL645626	Mouse DNA
AP001153	Homo sapi
AC146627	Papio anu
AC136031	Rattus no
AL672050	Mouse DNA
AC147399	Canis fam
AC109478	Homo sapi
AL672179	Mouse DNA
AC027011	Homo sapi
AX936287	Mouse DNA
CR354601	Mouse DNA
AL713974	Mouse DNA
CR954961	Mouse DNA
AL929008	Mouse DNA
AC162396	Bos tauru
AX649509	Mus muscu
AL670953	Mouse DNA
CR954969	Mus muscu
AC103044	Rattus no
AX936300	Mus muscu
AC144469	Canis fam
AC098249	Rattus no
AC118100	Rattus no
AX927321	Mouse DNA
AC095625	Rattus no
AC098659	Rattus no
CR954967	Mus muscu
AC111636	Rattus no
AC127645	Rattus no
S66109	MLC1C/1S-ca
AF286696	Homo sapi
AK024988	Homo sapi
AY851164	Homo sapi
AC104987	Homo sapi
AC125415	Homo sapi
AC129917	Homo sapi
AC127024	Homo sapi
AC110673	Canis fam
AX470221	Zebrafish
AY530951	Zea mays
AL356214	Human DNA
AB124586	Pan trogl
AC023266	Homo sapi
AC090984	Homo sapi
AC023278	Homo sapi
AC121802	Mus muscu
AC090616	Homo sapi
AC117938	Canis fam
AC158034	Bos tauru
AC147227	Mus muscu
AC027131	Homo sapi
AC162822	Bos tauru
AC114137	Rattus no
AC096396	Rattus no
AC127530	Homo sapi
AC137241	Rattus no

c 92	17.4	82.9	234956	14	AC122640	AC122640 Rattus no	c 165	16.8	80.0	159914	9	AC126450	AC126450 Mus muscu
c 93	17.4	82.9	235203	14	AC112547	AC112547 Rattus no	166	16.8	80.0	160299	8	AC007911	AC007911 Homo sapi
c 94	17.4	82.9	243613	14	AC099656	AC099656 Rattus no	167	16.8	80.0	163223	5	EX072556	EX072556 Zebrafish
c 95	17.4	82.9	289112	14	AC111798	AC111798 Rattus no	c 168	16.8	80.0	164103	14	AC037484	AC037484 Homo sapi
c 96	17.4	82.9	317796	14	AC110984	AC110984 Rattus no	c 169	16.8	80.0	164114	9	AC141871	AC141871 Mus muscu
c 97	17.4	82.9	347935	14	AC094698	AC094698 Rattus no	170	16.8	80.0	167493	5	EX072607	EX072607 Zebrafish
c 98	17	81.0	598	10	BV230074	BV230074 S233P6303	171	16.8	80.0	168172	14	AC164550	AC164550 Mus muscu
c 99	17	81.0	90925	5	AC149888	AC149888 Xenopus t	c 172	16.8	80.0	168438	14	AC151019	AC151019 Callichri
c 100	17	81.0	123004	8	AC087892	AC087892 Homo sapi	c 173	16.8	80.0	168767	8	AC099562	AC099562 Homo sapi
c 101	17	81.0	145156	8	AC010414	AC010414 Homo sapi	c 174	16.8	80.0	169234	2	AC018633	AC018633 Homo sapi
c 102	17	81.0	172300	8	AC010254	AC010254 Homo sapi	c 175	16.8	80.0	169509	8	AC007303	AC007303 Drosophi
c 103	17	81.0	175733	14	AC016121	AC016121 Homo sapi	176	16.8	80.0	170355	14	AC141223	AC141223 Rattus no
c 104	17	81.0	177162	14	AC068796	AC068796 Homo sapi	177	16.8	80.0	170577	14	AC120090	AC120090 Rattus no
c 105	17	81.0	188361	8	AC087880	AC087880 Homo sapi	178	16.8	80.0	170801	14	AC161515	AC161515 Mus muscu
c 106	17	81.0	190346	8	AC091939	AC091939 Homo sapi	179	16.8	80.0	172077	9	AC149220	AC149220 Mus muscu
c 107	17	81.0	191830	14	AC026332	AC026332 Homo sapi	c 180	16.8	80.0	173058	5	CR381635	CR381635 Zebrafish
c 108	17	81.0	254832	14	AC149723	AC149723 Bos tauru	181	16.8	80.0	174977	14	AC034307	AC034307 Homo sapi
c 109	16.8	80.0	518	10	BV315543	BV315543 S236P6286	182	16.8	80.0	180396	8	AL445683	AL445683 Human DNA
c 110	16.8	80.0	549	10	BV384969	BV384969 S244P6324	c 183	16.8	80.0	180728	14	AC164220	AC164220 Bos tauru
c 111	16.8	80.0	674	10	BV319763	BV319763 S236P6183	c 184	16.8	80.0	181811	14	AC154907	AC154907 Bos tauru
c 112	16.8	80.0	687	15	AF608185	AF608185 Pellia ep	c 185	16.8	80.0	182673	9	AC130828	AC130828 Mus muscu
c 113	16.8	80.0	738	15	AF217210	AF217210 Pellia ep	c 186	16.8	80.0	183125	8	AP002848	AP002848 Homo sapi
c 114	16.8	80.0	738	15	AF240473	AF240473 Pellia bo	c 187	16.8	80.0	184558	14	AC020570	AC020570 Homo sapi
c 115	16.8	80.0	746	10	BV638154	BV638154 S215P6164	188	16.8	80.0	185123	8	AC100782	AC100782 Homo sapi
c 116	16.8	80.0	807	2	AB074080	AB074080 Epistylis	189	16.8	80.0	187471	15	AP004232	AP004232 Oryza sat
c 117	16.8	80.0	1129	9	BC100441	BC100441 Mus muscu	190	16.8	80.0	187615	8	AC009709	AC009709 Homo sapi
c 118	16.8	80.0	1609	15	AF485491	AF485491 Synedrops	c 191	16.8	80.0	187738	9	AL845547	AL845547 Mouse DNA
c 119	16.8	80.0	6472	9	AF485327	AF485327 Mus muscu	192	16.8	80.0	189634	9	AC129604	AC129604 Mus muscu
c 120	16.8	80.0	21159	14	AC020461	AC020461 Drosophi	193	16.8	80.0	190195	14	AC139824	AC139824 Homo sapi
c 121	16.8	80.0	38128	2	CR701E8	Z48809 Caenorhabdi	c 194	16.8	80.0	190553	9	AC141638	AC141638 Mus muscu
c 122	16.8	80.0	59907	8	AC068642	AC068642 Homo sapi	195	16.8	80.0	192641	5	EX322588	EX322588 Zebrafish
c 123	16.8	80.0	63594	5	AC144868	AC144868 Xenopus t	196	16.8	80.0	193547	14	AC137712	AC137712 Mus muscu
c 124	16.8	80.0	73264	8	AC079833	AC079833 Homo sapi	197	16.8	80.0	194601	14	AC147755	AC147755 Otolleu
c 125	16.8	80.0	73511	8	HS65A6	Z92546 Human DNA s	c 198	16.8	80.0	196404	5	AL928556	AL928556 Zebrafish
c 126	16.8	80.0	82719	8	AC079858	AC079858 Homo sapi	c 199	16.8	80.0	199525	9	AC153617	AC153617 Mus muscu
c 127	16.8	80.0	86734	14	AC144956	AC144956 Xenopus t	200	16.8	80.0	199615	15	ATCHRIV7	ATCHRIV7 Arabidops
c 128	16.8	80.0	88529	14	CR788265	CR788265 Homo sapi	c 201	16.8	80.0	199656	9	AC130661	AC130661 Mus muscu
c 129	16.8	80.0	91920	15	AE016814_6	Continuation (7 of	c 202	16.8	80.0	205151	14	AC152782	AC152782 Bos tauru
c 130	16.8	80.0	92725	8	AC010350	AC010350 Homo sapi	c 203	16.8	80.0	206473	5	EX323042	EX323042 Zebrafish
c 131	16.8	80.0	96995	8	AC008149	AC008149 Homo sapi	c 204	16.8	80.0	206605	14	AC155479	AC155479 Zea mays
c 132	16.8	80.0	98913	15	AF069442	AF069442 Arabidops	c 205	16.8	80.0	206945	14	AC146022	AC146022 Pan trogl
c 133	16.8	80.0	103933	5	AC144820	AC144820 Xenopus t	c 206	16.8	80.0	210908	9	AC155843	AC155843 Mus muscu
c 134	16.8	80.0	105362	8	AC012370	AC012370 Homo sapi	207	16.8	80.0	213715	14	AC118879	AC118879 Rattus no
c 135	16.8	80.0	108765	14	AF216674	AF216674 Homo sapi	c 208	16.8	80.0	215121	9	AC123878	AC123878 Mus muscu
c 136	16.8	80.0	110000	1	CR543861_07	Continuation (8 of	c 209	16.8	80.0	215286	8	AC130650	AC130650 Homo sapi
c 137	16.8	80.0	110000	14	AL360016_0	AL360016 Homo sapi	c 210	16.8	80.0	218150	14	AC155480	AC155480 Human chrom
c 138	16.8	80.0	110000	15	AP008207_201	Continuation (202	c 211	16.8	80.0	218348	9	AC121537	AC121537 Mus muscu
c 139	16.8	80.0	110000	15	AP008208_183	Continuation (184	212	16.8	80.0	218363	9	AC100378	AC100378 Mus muscu
c 140	16.8	80.0	119736	14	AC108098	AC108098 Homo sapi	213	16.8	80.0	220338	14	AC103496	AC103496 Rattus no
c 141	16.8	80.0	122979	8	HSBK14H9	AL121936 Human DNA	214	16.8	80.0	221622	9	AC125183	AC125183 Mus muscu
c 142	16.8	80.0	123828	8	AP000353	AP000353 Homo sapi	c 215	16.8	80.0	230705	14	AC130996	AC130996 Rattus no
c 143	16.8	80.0	125170	8	AC133796	AC133796 Homo sapi	216	16.8	80.0	234844	14	AC111734	AC111734 Rattus no
c 144	16.8	80.0	127675	15	CR936945	CR936945 Medicago	217	16.8	80.0	238575	14	AC130761	AC130761 Rattus no
c 145	16.8	80.0	130244	8	AL590705	AL590705 Human DNA	c 218	16.8	80.0	238575	14	AC130761	AC130761 Rattus no
c 146	16.8	80.0	132329	14	AC161034	AC161034 Medicago	c 219	16.8	80.0	239106	14	AC156078	AC156078 Bos tauru
c 147	16.8	80.0	133668	8	AC113352	AC113352 Homo sapi	c 220	16.8	80.0	239579	14	AC095597	AC095597 Rattus no
c 148	16.8	80.0	134457	14	AC149239	AC149239 Muntiacus	c 221	16.8	80.0	242449	9	AC102618	AC102618 Mus muscu
c 149	16.8	80.0	139214	8	HS1128N12	AL109837 Human DNA	c 222	16.8	80.0	242567	14	AC159801	AC159801 Bos tauru
c 150	16.8	80.0	143029	9	AC129012	AL129012 Mus muscu	c 223	16.8	80.0	245156	14	AC084021	AC084021 Mus muscu
c 151	16.8	80.0	144698	14	AC102492	AC102492 Mus muscu	224	16.8	80.0	247169	14	AC123007	AC123007 Rattus no
c 152	16.8	80.0	145383	14	AC154955	AC154955 Bos tauru	c 225	16.8	80.0	247659	14	AC095548	AC095548 Rattus no
c 153	16.8	80.0	146099	14	AC121625	AC121625 Rattus no	c 226	16.8	80.0	248506	14	AC103085	AC103085 Rattus no
c 154	16.8	80.0	147480	8	AC091639	AC091639 Homo sapi	c 227	16.8	80.0	250467	14	AC094737	AC094737 Rattus no
c 155	16.8	80.0	152843	8	AC025828	AC025828 Homo sapi	228	16.8	80.0	256391	14	AC133269	AC133269 Rattus no
c 156	16.8	80.0	153093	9	AC121939	AC121939 Mus muscu	c 229	16.8	80.0	259383	2	AE003836	AE003836 Drosophi
c 157	16.8	80.0	153252	15	AP004861	AP004861 Oryza sat	230	16.8	80.0	260563	14	AC096606	AC096606 Rattus no
c 158	16.8	80.0	153921	14	AC163101	AC163101 Mus muscu	231	16.8	80.0	265770	9	AC155933	AC155933 Mus muscu
c 159	16.8	80.0	154959	8	AC004925	AC004925 Homo sapi	232	16.8	80.0	291806	14	AC148122	AC148122 Otolleu
c 160	16.8	80.0	155269	14	AF191252	AF191252 Homo sapi	233	16.4	78.1	400	6	CO712840	CO712840 Sequence
c 161	16.8	80.0	155366	8	AC104561	AC104561 Homo sapi	c 234	16.4	78.1	507	6	CQ433856	CQ433856 Sequence
c 162	16.8	80.0	155528	14	AC155983	AC155983 Xenopus t	c 235	16.4	78.1	823	5	CR407047	CR407047 Gallus ga
c 163	16.8	80.0	157383	5	AC146867	AC146867 Xenopus t	236	16.4	78.1	1289	5	EX933068	EX933068 Gallus ga
c 164	16.8	80.0	158921	8	AC024329	AC024329 Homo sapi	c 237	16.4	78.1	2409	5	CR354328	CR354328 Gallus ga

238	16.4	78.1	5984	8	AJ849445	AJ849445 Homo sapi	311	16.4	78.1	252348	14	AC094064	AC094064 Rattus no
239	16.4	78.1	7088	9	MMU489247	AJ489247 Mus muscu	312	16.4	78.1	252521	14	AC095166	AC095166 Rattus no
240	16.4	78.1	40611	14	AC023791	AC023791 Homo sapi	313	16.4	78.1	254690	14	AC095179	AC095179 Rattus no
241	16.4	78.1	63986	14	AC165631	AC165631 Bos tauru	314	16.4	78.1	258549	14	AC133113	AC133113 Rattus no
242	16.4	78.1	68997	14	AC090375	AC090375 Homo sapi	315	16.4	78.1	259318	14	AC103151	AC103151 Rattus no
243	16.4	78.1	78483	8	AC098651	AC098651 Homo sapi	316	16.4	78.1	268726	14	AC153919	AC153919 Mus muscu
244	16.4	78.1	83874	14	AC127191_5	Continuation (6 of	317	16.4	78.1	278103	14	AC115418	AC115418 Rattus no
245	16.4	78.1	86324	15	ATAC010870	Continuation (6 of	318	16.4	78.1	278652	14	AC073809	AC073809 Mus muscu
246	16.4	78.1	96233	14	AP003701	AP003701 Oryza sat	319	16.4	78.1	278885	14	AC099372	AC099372 Rattus no
247	16.4	78.1	107430	8	AC006988	AC006988 Homo sapi	320	16.4	78.1	282822	14	AC095679	AC095679 Rattus no
248	16.4	78.1	110000	1	AP006627_37	Continuation (38 o	321	16.4	78.1	285949	14	EX855603	EX855603 Homo sapi
249	16.4	78.1	110000	15	AP005660_0	Continuation (296	322	16.2	77.1	427	10	BV036659	BV036659 S212P6420
250	16.4	78.1	110000	15	AP008208_295	Continuation (296	323	16.2	77.1	486	10	G76139	G76139 S208P6152RE
251	16.4	78.1	110000	15	AP008213_092	Continuation (93 o	324	16.2	77.1	524	10	BV046203	BV046203 S209P6223
252	16.4	78.1	110000	15	AP008213_221	Continuation (222	325	16.2	77.1	574	6	AR500325	AR500325 Sequence
253	16.4	78.1	110633	8	AL353710	AL353710 Human DNA	326	16.2	77.1	574	6	AR515607	AR515607 Sequence
254	16.4	78.1	113442	8	AC137840	AC137840 Homo sapi	327	16.2	77.1	622	10	BV329793	BV329793 S212P6228
255	16.4	78.1	118987	14	AC160885	AC160885 Homo sapi	328	16.2	77.1	628	10	BV324428	BV324428 S236P64FB
256	16.4	78.1	126974	4	AC151776	AC151776 Ornithorh	329	16.2	77.1	636	10	BV245943	BV245943 S234P6140
257	16.4	78.1	128809	14	AC105931	AC105931 Magnaport	330	16.2	77.1	646	10	BV417655	BV417655 S229P6175
258	16.4	78.1	135382	8	AC023798	AC023798 Homo sapi	331	16.2	77.1	701	15	AY129699	AY129699 Panicum b
259	16.4	78.1	139163	14	AC148750	AC148750 Dasypus n	332	16.2	77.1	724	10	BV500679	BV500679 S222P6237
260	16.4	78.1	142707	8	HSJ279A18	AL049696 Human DNA	333	16.2	77.1	736	10	BV660163	BV660163 S216P6176
261	16.4	78.1	143947	8	AC012462	AC012462 Homo sapi	334	16.2	77.1	790	10	BV636518	BV636518 S217P6128
262	16.4	78.1	144184	14	AL138732	AL138732 Homo sapi	335	16.2	77.1	936	6	AR206755	AR206755 Sequence
263	16.4	78.1	147836	15	AP003983	AP003983 Oryza sat	336	16.2	77.1	1190	15	AY423097	AY423097 Epithema
264	16.4	78.1	150311	9	AC112081	AC112081 Rattus no	337	16.2	77.1	1581	9	BC055850	BC055850 Mus muscu
265	16.4	78.1	151453	15	AP005125	AP005125 Oryza sat	338	16.2	77.1	1647	13	AY030312	AY030312 Human cal
266	16.4	78.1	151652	14	AC128137	AC128137 Rattus no	339	16.2	77.1	1647	13	AY030313	AY030313 Human cal
267	16.4	78.1	152680	14	AC161715	AC161715 Sorex ara	340	16.2	77.1	1647	13	HCA277617	AJ277617 Human cal
268	16.4	78.1	153414	8	AC093430	AC093430 Homo sapi	341	16.2	77.1	1683	6	AR103994	AR103994 Sequence
269	16.4	78.1	157807	8	AC073573	AC073573 Homo sapi	342	16.2	77.1	2396	15	NP3279019	AJ279019 Narcissus
270	16.4	78.1	159035	15	AP004304	AP004304 Oryza sat	343	16.2	77.1	2838	13	HS30RF	ML3795 Varicella-z
271	16.4	78.1	164359	8	AC009899	AC009899 Homo sapi	344	16.2	77.1	2844	13	U02030	U02030 Minireoviru
272	16.4	78.1	166892	8	AC007463	AC007463 Homo sapi	345	16.2	77.1	3019	13	AF414414	AF414414 Norwalk-1
273	16.4	78.1	168153	14	AC148741	AC148741 Macropus	346	16.2	77.1	3020	13	AF414415	AF414415 Norwalk-1
274	16.4	78.1	169229	9	AC154019	AC154019 Mus muscu	347	16.2	77.1	3021	13	AF414411	AF414411 Norwalk-1
275	16.4	78.1	170134	8	AC096918	AC096918 Homo sapi	348	16.2	77.1	3021	13	AF414413	AF414413 Norwalk-1
276	16.4	78.1	171438	5	EX901918	EX901918 Zebrafish	349	16.2	77.1	3327	6	AX505662	AX505662 Sequence
277	16.4	78.1	172793	14	AC023659	AC023659 Homo sapi	350	16.2	77.1	3755	2	AP280620	AP280620 Papilio c
278	16.4	78.1	173757	14	AC149852	AC149852 Papio anu	351	16.2	77.1	4213	15	AK070172	AK070172 Oryza sat
279	16.4	78.1	174359	14	AC131875	AC131875 Rattus no	352	16.2	77.1	5936	6	CQ582560	CQ582560 Sequence
280	16.4	78.1	174556	14	AP001356	AP001356 Homo sapi	353	16.2	77.1	6564	6	AR595022	AR595022 Sequence
281	16.4	78.1	183457	9	AC111069	AC111069 Mus muscu	354	16.2	77.1	6564	6	BD016835	BD016835 Novel cyt
282	16.4	78.1	184232	5	CR381684	CR381684 Zebrafish	355	16.2	77.1	6730	14	AC014377	AC014377 Drosophila
283	16.4	78.1	185437	8	AC012075	AC012075 Homo sapi	356	16.2	77.1	8929	9	AB100417	AB100417 Mus muscu
284	16.4	78.1	185807	14	CR847842	CR847842 Homo sapi	357	16.2	77.1	9042	9	AB100416	AB100416 Mus muscu
285	16.4	78.1	187694	14	AC123193	AC123193 Rattus no	358	16.2	77.1	9048	9	AB100415	AB100415 Mus muscu
286	16.4	78.1	189165	14	AC150598	AC150598 Callithri	359	16.2	77.1	9074	9	AB100414	AB100414 Mus muscu
287	16.4	78.1	190284	14	AC115524	AC115524 Rattus no	360	16.2	77.1	9140	6	AB100418	AB100418 Mus muscu
288	16.4	78.1	190298	9	AC102676	AC102676 Mus muscu	361	16.2	77.1	11204	6	AR595047	AR595047 Sequence
289	16.4	78.1	191028	14	AC121666	AC121666 Rattus no	362	16.2	77.1	11204	6	BD016860	BD016860 Novel cyt
290	16.4	78.1	192585	14	CR354534	CR354534 Danio rer	363	16.2	77.1	11204	8	AB040430	AB040430 Homo sapi
291	16.4	78.1	193632	14	AC123502	AC123502 Rattus no	364	16.2	77.1	30577	8	AC114274	AC114274 Homo sapi
292	16.4	78.1	194199	14	AC135287	AC135287 Rattus no	365	16.2	77.1	34013	8	HSU73634	U73634 Human chrom
293	16.4	78.1	194884	14	AC160711	AC160711 Bos tauru	366	16.2	77.1	39093	14	AC158744	AC158744 Oryctolag
294	16.4	78.1	195501	8	AC007351	AC007351 Homo sapi	367	16.2	77.1	41150	8	AL445214	AL445214 Human DNA
295	16.4	78.1	198652	8	AC009303	AC009303 Homo sapi	368	16.2	77.1	42388	9	AL844202	AL844202 Mouse DNA
296	16.4	78.1	203311	9	AC144949	AC144949 Mus muscu	369	16.2	77.1	46397	14	AC134159	AC134159 Rattus no
297	16.4	78.1	203770	8	AC082651	AC082651 Homo sapi	370	16.2	77.1	53855	8	AL954833	AL954833 Human DNA
298	16.4	78.1	210088	8	AC161276	AC161276 Pan trogl	371	16.2	77.1	58030	5	EX928741	EX928741 Zebrafish
299	16.4	78.1	212524	14	CR855319	CR855319 Danio rer	372	16.2	77.1	59577	8	AL589796	AL589796 Human DNA
300	16.4	78.1	217835	14	AC127739	AC127739 Rattus no	373	16.2	77.1	61923	8	AC108139	AC108139 Homo sapi
301	16.4	78.1	220522	9	AL663064	AL663064 Mouse DNA	374	16.2	77.1	62536	8	AC005692	AC005692 Homo sapi
302	16.4	78.1	220720	14	AC154400	AC154400 Mus muscu	375	16.2	77.1	71132	8	AC092184	AC092184 Homo sapi
303	16.4	78.1	226790	14	AC127822	AC127822 Rattus no	376	16.2	77.1	75395	6	AR265356	AR265356 Sequence
304	16.4	78.1	228999	14	AC083885	AC083885 Homo sapi	377	16.2	77.1	75395	6	AR487612	AR487612 Sequence
305	16.4	78.1	232539	14	AC159474	AC159474 Mus muscu	378	16.2	77.1	78258	9	AL672030	AL672030 Mouse DNA
306	16.4	78.1	240173	9	AC113110	AC113110 Mus muscu	379	16.2	77.1	79375	15	ATT20K18	AL049640 Arabidops
307	16.4	78.1	250135	14	AC161685	AC161685 Bos tauru	380	16.2	77.1	84096	14	AC074170	AC074170 Mus muscu
308	16.4	78.1	250522	14	AC094765	AC094765 Rattus no	381	16.2	77.1	87244	15	AC093920	AC093920 Oryza sat
309	16.4	78.1	251144	14	AC109565	AC109565 Rattus no	382	16.2	77.1	87684	4	AY152828	AY152828 Felis cat
310	16.4	78.1	251505	14	AC128579	AC128579 Rattus no	383	16.2	77.1	88079	8	AL161715	AL161715 Human DNA

C 384	16.2	77.1	97572	15	AP004155	AP004155 Oryza sat
C 385	16.2	77.1	99373	14	AP007580	AP007580 Lotus cor
C 386	16.2	77.1	99866	8	AL358115	AL358115 Human DNA
C 387	16.2	77.1	103268	8	HS67M12	AL008732 Human DNA
C 388	16.2	77.1	103872	8	AC026694	AC026694 Homo sapi
C 389	16.2	77.1	104957	8	AL365217	AL365217 Human DNA
C 390	16.2	77.1	109626	8	AC010346	AC010346 Homo sapi
C 391	16.2	77.1	110000	1	BA000034	Continuation (35 o
C 392	16.2	77.1	110000	1	BA000033	Continuation (16 o
C 393	16.2	77.1	110000	1	BA000032	Continuation (17 o
C 394	16.2	77.1	110000	1	CP000083	Continuation (43 o
C 395	16.2	77.1	110000	15	AP008214	Continuation (95 o
C 396	16.2	77.1	110000	15	AP008216	Continuation (203 o
C 397	16.2	77.1	110000	15	AP008218	Continuation (78 o
C 398	16.2	77.1	110000	15	AP008207	Continuation (22 o
C 399	16.2	77.1	110000	15	AP008207	Continuation (119 o
C 400	16.2	77.1	110000	15	AP008209	Continuation (192 o
C 401	16.2	77.1	110000	15	AP008211	Continuation (53 o
C 402	16.2	77.1	110000	15	AP008211	Continuation (161 o
C 403	16.2	77.1	110000	15	AP008213	Continuation (272 o
C 404	16.2	77.1	110204	8	AC126469	AC126469 Homo sapi
C 405	16.2	77.1	110756	8	AC025174	AC025174 Homo sapi
C 406	16.2	77.1	110756	8	AC025174	AC025174 Homo sapi
C 407	16.2	77.1	112393	8	AC021739	AC021739 Homo sapi
C 408	16.2	77.1	115981	8	AC116361	AC116361 Homo sapi
C 409	16.2	77.1	117879	8	AC110004	AC110004 Homo sapi
C 410	16.2	77.1	119895	14	AC148645	AC148645 Taeniopyg
C 411	16.2	77.1	120864	14	AC149020	AC149020 Taeniopyg
C 412	16.2	77.1	122351	8	AP003780	AP003780 Homo sapi
C 413	16.2	77.1	122915	15	AC157984	AC157984 Medicago
C 414	16.2	77.1	124642	14	AC161736	AC161736 Loxodonta
C 415	16.2	77.1	124815	13	DQ008355	DQ008355 Human her
C 416	16.2	77.1	124821	13	DQ008354	DQ008354 Human her
C 417	16.2	77.1	124883	13	AY548170	AY548170 Human her
C 418	16.2	77.1	124884	6	BD097170	BD097170 Method fo
C 419	16.2	77.1	124884	6	AR283580	AR283580 Sequence
C 420	16.2	77.1	124884	6	AR431491	AR431491 Sequence
C 421	16.2	77.1	124884	6	AR630981	AR630981 Sequence
C 422	16.2	77.1	124884	13	HRVZVXX	X43370 Human herpe
C 423	16.2	77.1	125078	13	AB097932	AB097932 Human her
C 424	16.2	77.1	125125	13	AB097933	AB097933 Human her
C 425	16.2	77.1	125157	6	BD097171	BD097171 Method fo
C 426	16.2	77.1	125157	6	AR431492	AR431492 Sequence
C 427	16.2	77.1	125459	13	AY548171	AY548171 Human her
C 428	16.2	77.1	127255	14	AC159162	AC159162 Carollia
C 429	16.2	77.1	127331	15	AC157894	AC157894 Medicago
C 430	16.2	77.1	127725	8	AC023813	AC023813 Homo sapi
C 431	16.2	77.1	128220	9	AC004457	AC004457 Homo sapi
C 432	16.2	77.1	128614	9	BX510300	BX510300 Mouse DNA
C 433	16.2	77.1	132445	4	AY152826	AY152826 Felis cat
C 434	16.2	77.1	134174	8	AC009495	AC009495 Homo sapi
C 435	16.2	77.1	137559	14	CR936948	CR936948 Medicago
C 436	16.2	77.1	138369	14	AC007954	AC007954 Mus muscu
C 437	16.2	77.1	138461	14	AC113576	AC113576 Tetraodon
C 438	16.2	77.1	138871	14	AC138441	AC138441 Tetraodon
C 439	16.2	77.1	139766	14	AC156929	AC156929 Gallus ga
C 440	16.2	77.1	140974	8	AC068533	AC068533 Homo sapi
C 441	16.2	77.1	141862	15	AP002913	AP002913 Oryza sat
C 442	16.2	77.1	143056	5	BX649559	BX649559 Zebrafish
C 443	16.2	77.1	143400	15	AC134927	AC134927 Oryza sat
C 444	16.2	77.1	143751	14	AC093457	AC093457 Schistoso
C 445	16.2	77.1	143931	15	AP006459	AP006459 Oryza sat
C 446	16.2	77.1	144090	14	AC150031	AC150031 Daasyup n
C 447	16.2	77.1	144364	8	HS187J11	AL035689 Human DNA
C 448	16.2	77.1	144699	9	AC122040	AC122040 Mus muscu
C 449	16.2	77.1	145100	14	AC024641	AC024641 Homo sapi
C 450	16.2	77.1	145133	14	AC013822	AC013822 Homo sapi
C 451	16.2	77.1	146055	15	CNS08C8A	AL731786 Oryza sat
C 452	16.2	77.1	146598	14	AC025124	AC025124 Homo sapi
C 453	16.2	77.1	147595	14	AC162139	AC162139 Loxodonta
C 454	16.2	77.1	148219	9	AC108951	AC108951 Mus muscu
C 455	16.2	77.1	148507	14	AC011263	AC011263 Homo sapi
C 456	16.2	77.1	150137	15	AC135226	AC135226 Oryza sat
C 457	16.2	77.1	151024	15	CNS08C9L	AL732646 Oryza sat
C 458	16.2	77.1	152208	9	AC129203	AC129203 Mus muscu
C 459	16.2	77.1	152333	8	AC010476	AC010476 Homo sapi
C 460	16.2	77.1	153241	14	AC155211	AC155211 Daasyup n
C 461	16.2	77.1	153772	8	AC104464	AC104464 Homo sapi
C 462	16.2	77.1	154244	8	AL360231	AL360231 Human DNA
C 463	16.2	77.1	155106	15	AC097174	AC097174 Oryza sat
C 464	16.2	77.1	155359	8	AP003689	AP003689 Homo sapi
C 465	16.2	77.1	156451	14	AC155062	AC155062 Bos tauru
C 466	16.2	77.1	158199	14	AC022921	AC022921 Homo sapi
C 467	16.2	77.1	158633	14	AC015472	AC015472 Homo sapi
C 468	16.2	77.1	158759	14	AC136665	AC136665 Rattus no
C 469	16.2	77.1	158903	5	AC147645	AC147645 Gallus ga
C 470	16.2	77.1	159314	14	AC134321	AC134321 Felis cat
C 471	16.2	77.1	159326	14	AC024473	AC024473 Homo sapi
C 472	16.2	77.1	159667	8	AC078953	AC078953 Homo sapi
C 473	16.2	77.1	160100	2	AC023714	AC023714 Drosophil
C 474	16.2	77.1	161969	14	AC113571	AC113571 Canis fam
C 475	16.2	77.1	163118	4	AC148214	AC148214 Monodelph
C 476	16.2	77.1	163377	14	AC007897	AC007897 Homo sapi
C 477	16.2	77.1	163677	8	AL390844	AL390844 Human DNA
C 478	16.2	77.1	163872	5	AL954666	AL954666 Zebrafish
C 479	16.2	77.1	163921	14	AL390782	AL390782 Homo sapi
C 480	16.2	77.1	164246	14	AC016371	AC016371 Homo sapi
C 481	16.2	77.1	164394	8	AC157956	AC157956 Pan trogl
C 482	16.2	77.1	164845	8	HSJ1027G4	AL049647 Human DNA
C 483	16.2	77.1	164936	9	AC156393	AC156393 Mus muscu
C 484	16.2	77.1	165295	14	AC068486	AC068486 Homo sapi
C 485	16.2	77.1	165384	14	AC055735	AC055735 Homo sapi
C 486	16.2	77.1	165467	14	AC164294	AC164294 Mus muscu
C 487	16.2	77.1	166042	9	AP006289	AP006289 Homo sapi
C 488	16.2	77.1	166751	8	AC087066	AC087066 Rattus no
C 489	16.2	77.1	166928	14	AC110905	AC110905 Mus muscu
C 490	16.2	77.1	167237	14	AC021609	AC021609 Homo sapi
C 491	16.2	77.1	167404	4	AY208121	AY208121 Sus scrof
C 492	16.2	77.1	168267	15	AP003535	AP003535 Oryza sat
C 493	16.2	77.1	168581	9	AC104862	AC104862 Mus muscu
C 494	16.2	77.1	168838	5	BX296544	BX296544 Zebrafish
C 495	16.2	77.1	169108	14	AC147102	AC147102 Pan trogl
C 496	16.2	77.1	169379	14	AC149124	AC149124 Papio anu
C 497	16.2	77.1	170563	9	AC115970	AC115970 Mus muscu
C 498	16.2	77.1	171316	14	AC146640	AC146640 Otolemur
C 499	16.2	77.1	171501	14	AC026943	AC026943 Homo sapi
C 500	16.2	77.1	172173	9	AP003148	AP003148 Mus muscu

## ALIGNMENTS

RESULT 1	AF487459/c	AF487459	2002 bp	linear	PLN 24-MAR-2002
LOCUS	AF487459	Bromus tectorum acetolactate synthase (ALS) mRNA, partial cds.			
DEFINITION	AF487459	Bromus tectorum acetolactate synthase (ALS) mRNA, partial cds.			
ACCESSION	AF487459	Bromus tectorum acetolactate synthase (ALS) mRNA, partial cds.			
VERSION	AF487459.1	GI:19698558			
KEYWORDS		Bromus tectorum			
SOURCE		Bromus tectorum			
ORGANISM		Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Bromus;			
REFERENCE		1 (bases 1 to 2002)			
AUTHORS		Park, K.-W., Mallory-Smith, C.A., Ball, D.A. and Mueller-Warrant, G.W.			
TITLE		Partial sequence of downy brome acetolactate synthase			
JOURNAL		Unpublished			
REFERENCE		2 (bases 1 to 2002)			
AUTHORS		Park, K.-W., Mallory-Smith, C.A., Ball, D.A. and Mueller-Warrant, G.W.			
TITLE		Direct Submission			
JOURNAL		Submitted (25-FEB-2002) CropSoil Sci., Oregon State Univ., Corvallis, OR 97331-3002, USA			
FEATURES		Location/Qualifiers			
source		1..2002			
		/organism="Bromus tectorum"			

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 177.692 Seconds  
(without alignment)  
787.645 Million cell updates/sec

Title: US-10-805-973-2

Perfect score: 21

Sequence: 1 gtaggacaagaactgcatg 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

N\_Geneseq\_21.\*

1: Geneseq1980s.\*

2: Geneseq1990s.\*

3: Geneseq2000s.\*

4: Geneseq2001as.\*

5: Geneseq2001bs.\*

6: Geneseq2002as.\*

7: Geneseq2002bs.\*

8: Geneseq2003as.\*

9: Geneseq2003bs.\*

10: Geneseq2003cs.\*

11: Geneseq2003ds.\*

12: Geneseq2004as.\*

13: Geneseq2004bs.\*

14: Geneseq2005s.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19.4	92.4	521	8	ABX98502
2	19.4	92.4	2279	6	ABK14658
3	19.4	92.4	2279	6	ABN89399
4	19.4	92.4	2294	10	ADDA2026
5	19.4	92.4	2294	10	ADDA2024
6	19.4	92.4	2300	10	ADDA2022
7	19.4	92.4	2301	6	ABK14657
8	19.4	92.4	2301	10	ADDA2020
9	17.8	84.8	1243	10	ADC85890
10	17.8	84.8	1502	10	ADC86138
11	17.8	84.8	13973	6	ABK50459
12	17.4	82.9	11653	14	ABAG1213
13	17.4	82.9	17434	8	AAS52012
14	17.4	81.0	3297	5	AAS91437
15	16.8	80.0	1184	11	ACN90929
16	16.8	80.0	1305	6	ABQ60828
17	16.8	80.0	58803	11	ACN44304
18	16.8	80.0	73718	14	ADZ12958
19	16.8	80.0	93544	13	ABD33504

16.8	80.0	151909	14	ABX96535	ABX96535 Human CAB
16.4	78.1	507	4	AAL26419	AAL26419 Human bre
16.4	78.1	507	11	ACN88534	ACN88534 Breast ca
16.4	78.1	11026	4	AAK72958	AAK72958 Human imm
16.4	78.1	31749	4	AAK72959	AAK72959 Human imm
16.4	78.1	78925	3	AAK89888	AAK89888 Human FN
16.2	77.1	309	12	ADP61538	ADP61538 Soybean c
16.2	77.1	936	6	ABL59836	ABL59836 Streptoco
16.2	77.1	936	12	ADLI5959	ADLI5959 Complemen
16.2	77.1	1139	10	ADE07273	ADE07273 Novel cod
16.2	77.1	1146	10	ADE09531	ADE09531 Novel DNA
16.2	77.1	1683	2	AAV06047	AAV06047 1683 bp f
16.2	77.1	3327	6	ABZ12552	ABZ12552 Arabidope
16.2	77.1	5936	4	ABL08718	ABL08718 Drosophil
16.2	77.1	6564	3	AAK55314	AAK55314 Human act
16.2	77.1	11204	3	AAK55339	AAK55339 Human act
16.2	77.1	11204	6	ABX73286	ABX73286 DNA encod
16.2	77.1	75395	8	ABX93648	ABX93648 Human gen
16.2	77.1	75395	12	ADI30082	ADI30082 Human kin
16.2	77.1	75395	12	ADQ60237	ADQ60237 Human kin
16.2	77.1	124884	5	AAH74201	AAH74201 Nucleotid
16.2	77.1	124884	10	ADA14878	ADA14878 Human her
16.2	77.1	124884	11	ADL99489	ADL99489 Varicella
16.2	77.1	125157	5	AAH74202	AAH74202 Nucleotid
16.2	77.1	155350	13	ABD33514	ABD33514 Murine ca
16.2	77.1	372	6	ABN23339	ABN23339 Human ORF
16.2	76.2	1095	14	ADY52665	ADY52665 Human fet
16.2	76.2	2120	10	ADA45283	ADA45283 Rat gene
16.2	76.2	6391	13	ADQ85331	ADQ85331 Human tum
16.2	76.2	6436	13	ACF87523	ACF87523 Human SIR
16.2	76.2	6594	14	ADX98466	ADX98466 Human ade
16.2	76.2	6594	14	ADZ48787	ADZ48787 Insulin s
16.2	75.2	275	14	ADX25731	ADX25731 Novel cel
15.8	75.2	290	6	ABK30359	ABK30359 Human G-p
15.8	75.2	324	2	AAV86535	AAV86535 EST clone
15.8	75.2	338	2	AAK21102	AAK21102 Polynucle
15.8	75.2	370	13	ADU12259	ADU12259 Solid tum
15.8	75.2	446	9	ACH47204	ACH47204 Human inf
15.8	75.2	516	6	ABV95253	ABV95253 Human pan
15.8	75.2	552	9	ACF36042	ACF36042 Human ova
15.8	75.2	552	12	ADG08802	ADG08802 Human ova
15.8	75.2	577	2	AAV87120	AAV87120 EST clone
15.8	75.2	588	5	AAF94119	AAF94119 Primer sp
15.8	75.2	588	14	ADY63546	ADY63546 Human clo
15.8	75.2	696	4	AAI96880	AAI96880 Human neu
15.8	75.2	705	8	ABZ18508	ABZ18508 Group III
15.8	75.2	793	2	AAZ17313	AAZ17313 Human gen
15.8	75.2	793	2	AAK98788	AAK98788 Human val
15.8	75.2	813	2	AAZ15750	AAZ15750 Human gen
15.8	75.2	813	2	AAZ15759	AAZ15759 Human gen
15.8	75.2	887	4	AAK73175	AAK73175 Human imm
15.8	75.2	887	4	AAK70105	AAK70105 Human imm
15.8	75.2	887	4	AAK73174	AAK73174 Human imm
15.8	75.2	887	4	AAK70104	AAK70104 Human imm
15.8	75.2	900	5	ABV27175	ABV27175 Human pro
15.8	75.2	900	5	ABV21356	ABV21356 Human pro
15.8	75.2	905	12	ADQ22853	ADQ22853 Human sof
15.8	75.2	1019	13	ADS10333	ADS10333 Human the
15.8	75.2	1121	2	AAT02574	AAT02574 Human fib
15.8	75.2	1121	4	AAC91284	AAC91284 Human fib
15.8	75.2	1404	5	AAS91955	AAS91955 DNA encod
15.8	75.2	1422	2	AAT42466	AAT42466 Fibroblas
15.8	75.2	1422	2	AAT42466	AAT42466 Fibroblas
15.8	75.2	1422	2	AAT86314	AAT86314 Human fib
15.8	75.2	1422	2	AAV21385	AAV21385 Fibroblas
15.8	75.2	1479	8	ACA28857	ACA28857 Prokaryot
15.8	75.2	1482	13	ADT17350	ADT17350 Plant CDN
15.8	75.2	1631	4	AAS34925	AAS34925 cDNA enco
15.8	75.2	1631	10	ADC46083	ADC46083 Human neo
15.8	75.2	1650	14	ADW17037	ADW17037 Pinus rad
15.8	75.2	1992	13	ADU07834	ADU07834 DNA seque
15.8	75.2	2000	11	ACL38508	ACL38508 Rice stre
15.8	75.2	2000	11	ACL37408	ACL37408 Rice stre
15.8	75.2	2010	2	AAZ40848	AAZ40848 Secreted

c 93	15.8	75.2	2010	11	ADM77870	Adm77870 Human cDN	166	15.4	73.3	3917	4	AAH17589	Aah17589 Human cDN
c 94	15.8	75.2	2010	12	ADP19146	Adp19146 Human sec	167	15.4	73.3	4033	12	ADQ67499	Adq67499 Novel hum
c 95	15.8	75.2	2010	14	ADZ89330	Adz89330 Secreted	168	15.4	73.3	4350	5	AAS79916	Aas79916 DNA encod
c 96	15.8	75.2	2033	2	AAV49560	Aav49560 Human epi	c 169	15.4	73.3	6120	4	AAK86301	Aak86301 Human imm
c 97	15.8	75.2	2034	6	ARN83320	Arn83320 Human ren	170	15.4	73.3	20001	13	ADT77133	Adt77133 Type II d
c 98	15.8	75.2	2037	13	ADU07831	Adu07831 DNA sequ	171	15.4	73.3	22813	4	AAK82016	Aak82016 Human imm
c 99	15.8	75.2	2043	13	ADR67118	Adr67118 Human bla	172	15.4	73.3	22813	4	AAK86303	Aak86303 Human imm
c 100	15.8	75.2	2044	14	ADZ49380	Adz49380 Insulin s	173	15.4	73.3	22813	4	AAK65271	Aak65271 Human imm
c 101	15.8	75.2	2044	14	ADZ67447	Adz67447 Different	174	15.4	73.3	22813	4	AAK87333	Aak87333 Human imm
c 102	15.8	75.2	2044	14	ABE56457	AbE56457 Radiochem	175	15.4	73.3	110000	14	AEA61160_1	Continuation (2 of
c 103	15.8	75.2	2044	14	ABE56457	AbE56457 Radiochem	c 176	15.4	73.3	110000	14	AEA61169_1	Continuation (2 of
c 104	15.8	75.2	2049	7	ADW73147	Adw73147 Human kid	c 177	15.4	73.3	15095	8	ABZ80818	Abz80818 Human PAI
c 105	15.8	75.2	2049	7	ADW42001	Adw42001 cDNA elev	c 178	15.4	73.3	191395	12	ADL08126	Adl08126 Human gen
c 106	15.8	75.2	2049	10	ADG32876	Adg32876 Human DNA	c 179	15.4	73.3	217409	11	ACN45150	Acn45150 Human gen
c 107	15.8	75.2	2092	5	AAF93774	Aaf93774 Human cDN	180	15.4	73.3	272022	12	ADQ87126	Adq87126 Human can
c 108	15.8	75.2	2092	14	ADY63058	Ady63058 Human clo	181	15.2	72.4	399	10	ADK61577	Adk61577 Ovarian c
c 109	15.8	75.2	2099	4	AAF97929	Aaf97929 Human sec	182	15.2	72.4	399	13	ACF82132	Acf82132 Human SIR
c 110	15.8	75.2	2108	4	AAF97893	Aaf97893 Human sec	183	15.2	72.4	401	4	AAK95613	Aak95613 Human neu
c 111	15.8	75.2	2110	6	ABL89563	AbL89563 Human pol	184	15.2	72.4	401	4	AAK97106	Aak97106 Human neu
c 112	15.8	75.2	2240	5	ABA18173	AbA18173 Human ner	185	15.2	72.4	401	6	ABT00383	Abt00383 Human neu
c 113	15.8	75.2	2297	12	ADQ23781	Adq23781 Human sof	186	15.2	72.4	401	6	ABT01876	Abt01876 Human neu
c 114	15.8	75.2	2379	12	ADO19942	Ado19942 Human PRO	187	15.2	72.4	401	11	ADW70702	Adw70702 Human neu
c 115	15.8	75.2	2377	8	ACC46720	Acc46720 Human dit	188	15.2	72.4	413	4	AAI87863	Aai87863 Human pol
c 116	15.8	75.2	2736	13	ADS60589	AdS60589 Bacterial	c 189	15.2	72.4	442	3	RAC11704	Rac11704 Human sec
c 117	15.8	75.2	2742	11	ACL30380	Acl30380 Rice abio	c 190	15.2	72.4	448	4	AAK65770	Aak65770 Human imm
c 118	15.8	75.2	2742	11	ACL27735	Acl27735 Rice abio	c 191	15.2	72.4	465	3	AAA11268	Aaa11268 Hirudo me
c 119	15.8	75.2	2747	6	ABS51838	AbS51838 Novel hum	c 192	15.2	72.4	468	9	ACH44014	Ach44014 Human foe
c 120	15.8	75.2	2817	13	ADR83521	Adr83521 Human fib	c 193	15.2	72.4	472	6	ABK30863	Abk30863 Plant dwa
c 121	15.8	75.2	3308	8	ABZ36229	Abz36229 Human sec	c 194	15.2	72.4	479	11	ACN86751	Acn86751 Breast ca
c 122	15.8	75.2	3495	12	ADL12389	Adl12389 Human ste	c 195	15.2	72.4	491	6	ABK55106	Abk55106 Human col
c 123	15.8	75.2	3516	4	AAK85421	Aak85421 Human imm	196	15.2	72.4	500	5	ABV53456	Abv53456 Human pro
c 124	15.8	75.2	4101	12	ADQ25265	Adq25265 Human sof	197	15.2	72.4	522	11	ACL29451	Acl29451 Rice abio
c 125	15.8	75.2	9112	4	ABL21684	AbL21684 Drosophil	198	15.2	72.4	538	3	AACT79290	Aact79290 Human lun
c 126	15.8	75.2	11628	2	AAK80004	Aak80004 Polynucle	199	15.2	72.4	538	4	AAD23366	Aad23366 Human lun
c 127	15.8	75.2	12060	4	AAK80004	Aak80004 Human imm	200	15.2	72.4	538	10	ADD66640	Add66640 Human lun
c 128	15.8	75.2	12174	12	ADI35082	Adi35082 Human PLA	201	15.2	72.4	538	10	ADBE7894	Adbe7894 Human lun
c 129	15.8	75.2	12174	12	ADJ09983	Adj09983 Human pho	202	15.2	72.4	563	13	ADU10439	Adu10439 Solid tum
c 130	15.8	75.2	13612	6	ABK47376	Abk47376 Human pho	c 203	15.2	72.4	601	13	ADR59340	Adr59340 Cotton cd
c 131	15.8	75.2	23109	4	AAK82298	Aak82298 Human imm	204	15.2	72.4	605	4	AAI10709	Aai10709 Human bre
c 132	15.8	75.2	25860	11	ACN44978	Acn44978 Human gen	205	15.2	72.4	607	4	AAI17784	Aai17784 Human bre
c 133	15.8	75.2	36159	6	ABN85329	Abn85329 Human kin	c 206	15.2	72.4	629	4	AAH70158	Aah70158 Human cer
c 134	15.8	75.2	53591	11	ACN44970	Acn44970 Human gen	c 207	15.2	72.4	629	13	ACN50705	Acn50705 Cotton an
c 135	15.8	75.2	64135	13	ABD33383	Abd33383 Murine ca	208	15.2	72.4	666	11	ACN80907	Acn80907 Breast ca
c 136	15.8	75.2	102457	9	ACH03408_3	ACH03408_3	c 209	15.2	72.4	696	6	ABQ65705	Abq65705 Arabidops
c 137	15.8	75.2	110000	8	ADU53224_2	ADU53224_2	c 210	15.2	72.4	700	4	AAH92480	Aah92480 Human inf
c 138	15.8	75.2	209613	14	ADY25743	Ady25743 Uridine p	211	15.2	72.4	707	2	AAK40076	Aak40076 Gastric c
c 139	15.4	73.3	345	14	ADY61647	Ady61647 Gene trap	212	15.2	72.4	714	6	ABK30739	Abk30739 Plant dwa
c 140	15.4	73.3	435	14	ABE89709	AbE89709 Isolated	213	15.2	72.4	714	6	ABL49464	AbL49464 Sequence
c 141	15.4	73.3	483	3	AAH303979	Aah303979 Human col	214	15.2	72.4	726	10	ADJ94118	Adj94118 Hairless
c 142	15.4	73.3	568	4	AAH05116	Aah05116 Human cDN	215	15.2	72.4	744	13	ADS59312	AdS59312 Bacterial
c 143	15.4	73.3	717	10	ADD17431	Add17431 DNA (SeqI	216	15.2	72.4	768	4	AAF22795	Aaf22795 Human pro
c 144	15.4	73.3	717	10	ADK54762	Adk54762 Plant DNA	c 217	15.2	72.4	801	3	AAK40409	Aak40409 Arabidops
c 145	15.4	73.3	761	10	AAH04507	Aah04507 Human cDN	218	15.2	72.4	815	4	AAF22791	Aaf22791 Human pro
c 146	15.4	73.3	816	10	ADC91876	AdC91876 E. faeciu	219	15.2	72.4	819	4	AAF22649	Aaf22649 Human gas
c 147	15.4	73.3	884	4	AAK26251	Aak26251 Human cDN	220	15.2	72.4	840	2	AAAT67387	Aat67387 H. pylori
c 148	15.4	73.3	884	8	ABX73592	Abx73592 Human nov	221	15.2	72.4	843	2	AAK30419	Aak30419 H. pylori
c 149	15.4	73.3	1404	4	AAK86302	Aak86302 Human imm	222	15.2	72.4	852	2	AAAT67945	Aat67945 H. pylori
c 150	15.4	73.3	1517	8	ACC46348	Acc46348 Human dit	223	15.2	72.4	852	11	ACN90006	Acn90006 Breast ca
c 151	15.4	73.3	1909	13	ADX12340	Adx12340 Plant ful	c 224	15.2	72.4	909	11	ACN90271	Acn90271 Breast ca
c 152	15.4	73.3	2100	4	AAK90390	Aak90390 Human dig	225	15.2	72.4	930	4	AAH47618	Aah47618 Candida C
c 153	15.4	73.3	2100	4	AAK90389	Aak90389 Human dig	c 226	15.2	72.4	930	5	AAH43396	Aah43396 Candida C
c 154	15.4	73.3	2100	4	AAH17354	Aah17354 Human cDN	c 227	15.2	72.4	934	2	AAAT92699	Aat92699 Candida C
c 155	15.4	73.3	2100	5	AAK39946	Aak39946 Genomic s	c 228	15.2	72.4	934	2	AAAT92866	Aat92866 Candida C
c 156	15.4	73.3	2100	5	AAK39945	Aak39945 Genomic s	c 229	15.2	72.4	934	2	AAZ11688	Aaz11688 Candida R
c 157	15.4	73.3	2100	9	ADB32906	AdB32906 Human nov	c 230	15.2	72.4	979	6	ABN74787	Abn74787 Bovine em
c 158	15.4	73.3	2100	9	ADB32905	AdB32905 Human nov	231	15.2	72.4	979	6	ABN74786	Abn74786 Bovine em
c 159	15.4	73.3	2106	10	ADF82459	Adf82459 Leukaemia	c 232	15.2	72.4	1004	6	ABX93063	Abx93063 C. annuum
c 160	15.4	73.3	2180	8	ACC46332	Acc46332 Human dit	c 233	15.2	72.4	1024	6	ABX66814	Abx66814 Helicobac
c 161	15.4	73.3	2181	8	ACC46401	Acc46401 Human dit	c 234	15.2	72.4	1278	9	ADA29424	Ada29424 DNA encod
c 162	15.4	73.3	3041	8	AAU15179	Aau15179 Human nuc	c 235	15.2	72.4	1318	3	AAK35042	Aak35042 Arabidops
c 163	15.4	73.3	3153	5	AAK568361	Aak568361 DNA encod	c 236	15.2	72.4	1319	3	AAK49865	Aak49865 Arabidops
c 164	15.4	73.3	3153	5	AAK589255	Aak589255 DNA encod	c 237	15.2	72.4	1336	4	AAF22790	Aaf22790 Human pro
c 165	15.4	73.3	3691	13	ADR08105	Adr08105 Full leng	c 238	15.2	72.4	1387	13	ADT15123	Adt15123 Plant cDN



239	15.2	72.4	1500	2	AA06947	C-promote	Abt06947	Human	Abk69944	Human	sec
240	15.2	72.4	1579	10	ADF77067	Novel hum	Adf77067	Novel hum	Abt02972	Drosophil	
241	15.2	72.4	1580	2	AA039671	Renal can	Aax39671	Renal can	Aak89418	Human dig	
242	15.2	72.4	1580	4	ADL1117	Human sma	Adl1117	Human sma	Aas31923	Human liv	
243	15.2	72.4	1580	6	ABV78064	Hypoxia-r	Abv78064	Hypoxia-r	Abn90278	Human liv	
244	15.2	72.4	1580	10	ADG10725	Human STA	Adg10725	Human STA	Adj15191	Human liv	
245	15.2	72.4	1580	13	ADP54970	Human PRO	Adp54970	Human PRO	Aah24652	Nucleotid	
246	15.2	72.4	1599	2	AA039641	Breast ca	Aax39641	Breast ca	Abd33037	Mouse can	
247	15.2	72.4	1704	14	AA052599	Human H-2	Aea52599	Human H-2	Abd33628	Human can	
248	15.2	72.4	1712	10	ADG77062	Human nuc	Adg77062	Human nuc	Abd33628	Human can	
249	15.2	72.4	1722	10	ADG10835	Human STA	Adg10835	Human STA	Adz13602	Human can	
250	15.2	72.4	1722	10	ADG10837	Human STA	Adg10837	Human STA	Aak67426	Human imm	
251	15.2	72.4	1758	10	ADG10889	Human STA	Adg10889	Human STA	Adc27000	Human car	
252	15.2	72.4	1764	4	AAK90548	Human dig	Aak90548	Human dig	Ada03080	Human PRD	
253	15.2	72.4	1836	12	ADN73122	Thale cre	Adn73122	Thale cre	Ada66364	Human PRD	
254	15.2	72.4	1843	8	ABX77613	Different	Abx77613	Different	Adb72818	Human PRD	
255	15.2	72.4	1857	14	ADY16672	DNA encod	Ady16672	DNA encod	Adl27158	Human gen	
256	15.2	72.4	2067	8	ACA33861	Prokaryot	Aca33861	Prokaryot	Aeb33160	L. pneumo	
257	15.2	72.4	2082	10	ADC92531	E. faeciu	Adc92531	E. faeciu	Adc85257	Mouse Ptp	
258	15.2	72.4	2152	2	AAQ25301	CDNA enco	Aaq25301	CDNA enco	Ada02777	Mouse Ptp	
259	15.2	72.4	2152	2	AAQ54632	Guinea pi	Aaq54632	Guinea pi	Adb72515	Mouse Ptp	
260	15.2	72.4	2152	2	AAV15092	Guinea pi	Aav15092	Guinea pi	Adm74372	Murine ca	
261	15.2	72.4	2220	13	ADX64655	Plant ful	Adx64655	Plant ful	Continuation	(4 of	
262	15.2	72.4	2397	13	ADT91418	Arabidops	Adt91418	Arabidops	Continuation	(4 of	
263	15.2	72.4	2613	8	ABT19419	Aspergill	Abt19419	Aspergill	Continuation	(4 of	
264	15.2	72.4	2640	6	ABL69103	Kidney ca	Abt169103	Kidney ca	Continuation	(3 of	
265	15.2	72.4	2640	6	ABL65801	Lung can	Abt65801	Lung can	Continuation	(4 of	
266	15.2	72.4	2640	13	ADR25666	Breast ca	Adr25666	Breast ca	Continuation	(4 of	
267	15.2	72.4	2640	14	ADY61851	Human gen	Ady61851	Human gen	Continuation	(4 of	
268	15.2	72.4	2670	8	ABT21239	Aspergill	Abt21239	Aspergill	Continuation	(3 of	
269	15.2	72.4	2763	8	ABT20641	Aspergill	Abt20641	Aspergill	Continuation	(3 of	
270	15.2	72.4	2763	8	ABT18825	Aspergill	Abt18825	Aspergill	Continuation	(3 of	
271	15.2	72.4	2852	13	ADT90667	Human gen	Adt90667	Human gen	Continuation	(5 of	
272	15.2	72.4	2858	9	ACH03797	Human cDN	Ach03797	Human cDN	Continuation	(2 of	
273	15.2	72.4	2858	10	ADJ56505	Human cDN	Adj56505	Human cDN	Continuation	(20 of	
274	15.2	72.4	2862	4	ABL17554	Drosophil	Abt17554	Drosophil	Continuation	(3 of	
275	15.2	72.4	2878	6	AA049664	Human DNA	Aas94964	Human DNA	Continuation	(3 of	
276	15.2	72.4	2881	8	ACA03960	CDNA down	Aca03960	CDNA down	Continuation	(3 of	
277	15.2	72.4	2891	10	ADE54045	Human pro	Ade54045	Human pro	Continuation	(5 of	
278	15.2	72.4	2922	14	ADW16914	Pinus rad	Adw16914	Pinus rad	Continuation	(2 of	
279	15.2	72.4	2929	5	ABV25880	Human pro	Abv25880	Human pro	Continuation	(20 of	
280	15.2	72.4	2978	10	ACA61619	CDNA enco	Aca61619	CDNA enco	Continuation	(3 of	
281	15.2	72.4	2979	12	ADQ07189	Human hep	Adm07189	Human hep	Continuation	(3 of	
282	15.2	72.4	2979	12	ADQ09207	Human KIA	Adq09207	Human KIA	Continuation	(3 of	
283	15.2	72.4	2979	12	ADQ09171	Human KIA	Adq09171	Human KIA	Continuation	(5 of	
284	15.2	72.4	2979	14	ADY15183	DNA enco	Ady15183	DNA enco	Continuation	(2 of	
285	15.2	72.4	4177	4	ABL13282	Drosophil	Abt13282	Drosophil	Continuation	(20 of	
286	15.2	72.4	4331	12	ADQ64888	Novel hum	Adq64888	Novel hum	Continuation	(3 of	
287	15.2	72.4	4523	8	ABL24380	Drosophil	Abt24380	Drosophil	Continuation	(3 of	
288	15.2	72.4	4763	8	ABT18231	Aspergill	Abt18231	Aspergill	Continuation	(3 of	
289	15.2	72.4	4763	8	ABT20045	Aspergill	Abt20045	Aspergill	Continuation	(3 of	
290	15.2	72.4	4956	2	AA013228	Enterococ	Aax13228	Enterococ	Continuation	(3 of	
291	15.2	72.4	4956	6	AB059023	Enterococ	Ab059023	Enterococ	Continuation	(3 of	
292	15.2	72.4	5093	12	ADQ18226	Human sof	Adq18226	Human sof	Continuation	(3 of	
293	15.2	72.4	5360	8	ABX10381	DNA enco	Abx10381	DNA enco	Continuation	(3 of	
294	15.2	72.4	5360	13	ADP54684	Human PRO	Adp54684	Human PRO	Continuation	(3 of	
295	15.2	72.4	5360	13	ADR52719	Drug ther	Adr52719	Drug ther	Continuation	(3 of	
296	15.2	72.4	5360	14	ADX07797	Cyclin-de	Adx07797	Cyclin-de	Continuation	(3 of	
297	15.2	72.4	5360	14	ADY15863	DNA enco	Ady15863	DNA enco	Continuation	(3 of	
298	15.2	72.4	5574	8	ACD05999	Novel hum	Adc05999	Novel hum	Continuation	(3 of	
299	15.2	72.4	5668	3	AA018323	Lung can	Aaf18323	Lung can	Continuation	(3 of	
300	15.2	72.4	5720	5	ADL62256	Human ova	Adl62256	Human ova	Continuation	(3 of	
301	15.2	72.4	5759	11	ACN91830	Breast ca	Acn91830	Breast ca	Continuation	(3 of	
302	15.2	72.4	7280	11	ADN95918	Human BEC	Adn95918	Human BEC	Continuation	(3 of	
303	15.2	72.4	7501	12	ADQ22773	Human sof	Adq22773	Human sof	Continuation	(3 of	
304	15.2	72.4	7765	4	AA026497	Human bre	Aal26497	Human bre	Continuation	(3 of	
305	15.2	72.4	7765	5	ADL45290	Human ova	Adl45290	Human ova	Continuation	(3 of	
306	15.2	72.4	7765	11	ACN85858	Breast ca	Acn85858	Breast ca	Continuation	(3 of	
307	15.2	72.4	10025	4	ABL14672	Drosophil	Abt14672	Drosophil	Continuation	(3 of	
308	15.2	72.4	12701	10	ADDA8676	Human gen	Add8676	Human gen	Continuation	(3 of	
309	15.2	72.4	13868	3	AA051324	Z. mayis M	Aaa51324	Z. mayis M	Continuation	(3 of	
310	15.2	72.4	16449	4	ABL25556	Drosophil	Abt25556	Drosophil	Continuation	(3 of	
311	15.2	72.4	17327	2	AAQ44278	Serglycin	Aaq44278	Serglycin	Continuation	(3 of	

385	15	71.4	3342	8	AAD52553	Aad52553 P2D6 DNA.
386	15	71.4	3342	8	ABZ81825	Abz81825 Receptor
387	15	71.4	3342	11	ADN32177	Adn32177 Cancer/an
388	15	71.4	3342	11	ADN39797	Adn39797 Cancer/an
389	15	71.4	3342	12	ADQ22263	Adq22263 Human FZD
390	15	71.4	3342	12	ADQ96189	Adq96189 T cell ac
391	15	71.4	3342	12	ADQ96191	Adq96191 T cell ac
392	15	71.4	3342	14	ADY15219	Ady15219 DNA encod
393	15	71.4	3342	14	ADY13745	Ady13745 DNA encod
394	15	71.4	3492	2	AAX35745	Aax35745 cDNA encod
395	15	71.4	12595	4	AAS42100	Aas42100 Genomic s
396	15	71.4	22651	4	AAK78202	Aak78202 Human imm
397	15	71.4	22651	10	ADC86002	Adc86002 Human GPC
398	15	71.4	3927	12	ADM98979	Adm98979 Diterpene
399	15	71.4	15537	12	ADQ13389	Adq13389 Human sof
400	14.8	70.5	25	9	AC161940	Ac161940 Human mic
401	14.8	70.5	285	6	ABN79275	Abn79275 Human ORF
402	14.8	70.5	462	4	AAH11528	Aah11528 Human cDN
403	14.8	70.5	561	14	ACL56367	ACL56367 Human col
404	14.8	70.5	566	12	ADQ21408	Adq21408 Human sof
405	14.8	70.5	610	13	ACN56858	Acn56858 Cotton gy
406	14.8	70.5	672	13	ADR61469	Adr61469 Cotton cD
407	14.8	70.5	719	4	AAS23041	Aas23041 DNA encod
408	14.8	70.5	796	3	AAS22947	Aas22947 Mycoplasma
409	14.8	70.5	861	4	AAS22947	Aas22947 DNA encod
410	14.8	70.5	966	3	AZ299469	Aaz299469 Arabidops
411	14.8	70.5	966	6	AAD40259	Aad40259 A. thalia
412	14.8	70.5	998	12	ADQ84741	Adq84741 Human tum
413	14.8	70.5	1149	8	ABT19052	Abt19052 Aspergill
414	14.8	70.5	1149	8	ABT18458	Abt18458 Aspergill
415	14.8	70.5	1361	2	AAS235942	Aaz235942 Streptoco
416	14.8	70.5	1361	13	ADX54883	Adx54883 Plant ful
417	14.8	70.5	1578	8	ADR70454	Adr70454 Rice gene
418	14.8	70.5	1594	12	ADQ25263	Adq25263 Human sof
419	14.8	70.5	1703	10	ADF28875	Adf28875 Human nor
420	14.8	70.5	1705	14	ABE67803	Aeb67803 Rice geno
421	14.8	70.5	1889	13	ACN41145	Acn41145 Human dia
422	14.8	70.5	1953	13	ADT45358	Adt45358 Bacterial
423	14.8	70.5	1967	2	AAV12285	Aav12285 Human pro
424	14.8	70.5	1967	10	ADF28872	Adf28872 Human nor
425	14.8	70.5	1969	10	ADB59237	Adb59237 Toxicity-
426	14.8	70.5	1969	10	ADB53921	Adb53921 Primary r
427	14.8	70.5	1969	11	ADW22227	Adw22227 Rat hepat
428	14.8	70.5	1988	8	ABT20872	Abt20872 Aspergill
429	14.8	70.5	2000	11	ACL37213	Acl37213 Rice stre
430	14.8	70.5	2001	8	ACA24215	Ac24215 Prokaryot
431	14.8	70.5	2157	4	AH02147	Aah02147 Streptoco
432	14.8	70.5	2160	4	AAH01178	Aah01178 Streptoco
433	14.8	70.5	2160	4	AAH02056	Aah02056 Streptoco
434	14.8	70.5	2184	8	ABT20274	Abt20274 Aspergill
435	14.8	70.5	2251	4	AAF74276	Aaf74276 Tobacco c
436	14.8	70.5	2393	6	ABL01573	Ab101573 Human sec
437	14.8	70.5	2481	13	ADT05248	Adt05248 Haemophil
438	14.8	70.5	2481	5	AAS85905	Aas85905 DNA encod
439	14.8	70.5	2591	4	AAH16224	Aah16224 Human cDN
440	14.8	70.5	2591	12	ADL22885	Adl22885 Human MP2
441	14.8	70.5	2591	13	ADR14082	Adr14082 Human NF-
442	14.8	70.5	2610	3	AAZ33371	Aaz33371 Human sec
443	14.8	70.5	2625	12	ADP98558	Adp98558 C. albica
444	14.8	70.5	2663	5	ABA14610	Ab14610 Human ner
445	14.8	70.5	2760	13	ADS96659	Ad96659 Drosophil
446	14.8	70.5	2799	8	ADM69738	Adm69738 Rice gene
447	14.8	70.5	3064	8	ABZ23869	Abz23869 Mouse ONS
448	14.8	70.5	3064	12	ADI32347	Adi32347 Mouse OAS
449	14.8	70.5	3132	13	ADX30458	Adx30458 Plant ful
450	14.8	70.5	3149	8	ABT17864	Abt17864 Aspergill
451	14.8	70.5	3351	10	ADN75282	Adn75282 Thale cre
452	14.8	70.5	3351	12	ADN72166	Adn72166 Thale cre
453	14.8	70.5	3487	4	ABL09071	Ab109071 Drosophil
454	14.8	70.5	3573	4	ABL05120	Ab105120 Drosophil
455	14.8	70.5	3809	4	AAF24498	Aaf24498 Human PG-
456	14.8	70.5	3809	6	ABQ81803	Abq81803 Human PG-
457	14.8	70.5	4122	6	ABN66743	Abn66743 Streptoco
458	14.8	70.5	4170	3	AAZ99468	Aaz99468 Arabidops
459	14.8	70.5	4170	6	AAD40258	Aad40258 A. thalia
460	14.8	70.5	4171	5	AAS77682	Aas77682 DNA encod
461	14.8	70.5	4171	13	ADS11565	Ad11565 Human the
462	14.8	70.5	4184	8	ABT19678	Abt19678 Aspergill
463	14.8	70.5	4205	5	AAS88708	Aas88708 DNA encod
464	14.8	70.5	4844	13	ADT15470	Adt15470 Plant cDN
465	14.8	70.5	4941	4	ABL19103	Ab119103 Drosophil
466	14.8	70.5	5121	4	ABL23055	Ab123055 Drosophil
467	14.8	70.5	6060	4	ABL09070	Ab109070 Drosophil
468	14.8	70.5	6501	12	ADM47918	Adm47918 Polynucle
469	14.8	70.5	6599	12	ADQ24296	Adq24296 Human sof
470	14.8	70.5	6941	13	ADR52921	Adr52921 Drug ther
471	14.8	70.5	7622	5	AAS91166	Aas91166 DNA encod
472	14.8	70.5	7848	13	ADR84458	Adr84458 Aspergill
473	14.8	70.5	10206	8	AAD55182	Aad55182 Megathura
474	14.8	70.5	10263	8	AAD55184	Aad55184 Megathura
475	14.8	70.5	10472	12	ADJ12647	Adj12647 DNA fragm
476	14.8	70.5	10495	8	AAD55185	Aad55185 Megathura
477	14.8	70.5	11529	14	AEA15412	Aea15412 Human pol
478	14.8	70.5	14977	4	AAS59602	Aas59602 Propionib
479	14.8	70.5	14977	8	ACF64531	Acf64531 Propionib
480	14.8	70.5	16106	4	AAK83468	Aak83468 Human imm
481	14.8	70.5	16161	4	AAK83469	Aak83469 Human imm
482	14.8	70.5	23620	4	ABL19102	Ab119102 Drosophil
483	14.8	70.5	23620	4	ABL29054	Ab129054 Drosophil
484	14.8	70.5	27733	14	ADV96522	Adv96522 Coronavir
485	14.8	70.5	28180	4	AAK68939	Aak68939 Human imm
486	14.8	70.5	31865	4	AAK85330	Aak85330 Human imm
487	14.8	70.5	31865	4	AAK85331	Aak85331 Human pro
488	14.8	70.5	53000	8	AAD55325	Aad55325 Human pro
489	14.8	70.5	57652	12	ADQ59398	Adq59398 Continuation (4 of
490	14.8	70.5	63411	12	ADQ97081	Adq97081 Mouse can
491	14.8	70.5	65814	13	ADT05644	Adt05644 Haemophil
492	14.8	70.5	89378	12	ADN47591	Adn47591 Continuation (21 o
493	14.8	70.5	89378	12	ADN47209	Adn47209 Continuation (21 o
494	14.8	70.5	89378	12	ADN47960	Adn47960 Continuation (21 o
495	14.8	70.5	95050	14	ADX98574	Adx98574 Human LOC
496	14.8	70.5	96596	9	ADA02564	Ada02564 Human RAS
497	14.8	70.5	96596	10	ADB72302	Adb72302 Human RAS
498	14.8	70.5	96596	10	ADE95812	Ade95812 Human RAS
499	14.8	70.5	100596	14	AEA61182	Aea61182 Human SI
500	14.8	70.5	110000	2	AAT42063	Ata42063 Continuation (5 of

## ALIGNMENTS

## RESULT 1

ABX98502/c

ID ABX98502 standard; cDNA; 521 BP.

AC ABX98502;

DT 16-MAY-2003 (first entry)

DE Rice albumin expressed sequence tag (EST) #43.

KW Rice leaf; expressed sequence tag; EST; constituted biochip;  
KW EST technology; albumin; gene cloning; crop characteristic; as;  
KW heterosis; transgenic agricultural product; herbicide; pesticide.

OS Oryza sp.

XX CN1364919-A.

XX 21-AUG-2002.

XX 31-OCT-2001; 2001CN-00135863.

XX 31-OCT-2001; 2001CN-00135863.

XX (UYZH-) UNIV ZHEJIANG.



GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2594.31 Seconds  
(without alignments)  
378.725 Million cell updates/sec

Title: US-10-805-973-2  
Perfect score: 21  
Sequence: 1 qtaqacaaqaaacttqcatg 21

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

**Database :**

1: gb

```
2: gb_est2: *
3: gb_est3: *
4: gb_htc: *
5: gb_est4: *
6: gb_est5: *
7: gb_est6: *
8: gb_est7: *
9: gb_gss1: *
10: gb_gss2: *
11: gb_gss3: *
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Query			DB	ID	Description
	Score	Match	Length			
C 1	21	100.0	367	5	BQ762109	BQ762109 EBP101.SQ
C 2	21	100.0	443	1	AO089907	AO089907 ACW089907
C 3	21	100.0	462	8	CX629678	CX629678 GCW003B24
C 4	21	100.0	515	6	CB862498	CB862498 HH04G02u
C 5	21	100.0	526	1	AJ610886	AJ610886 HJ0610886
C 6	21	100.0	528	1	AV942818	AV942818 AV942818
C 7	21	100.0	543	5	BU985874	BU985874 HF08007z
C 8	21	100.0	568	5	CA001528	CA001528 HS18N04u
C 9	21	100.0	568	5	CA001528	CA001528 HSI17M10u
C 10	21	100.0	613	7	CNO10201	CNO10201 WHE3867 H
C 11	21	100.0	615	7	CNO10201	CNO10201 WHE3867 H
C 12	21	100.0	620	3	BJ468205	BJ468205 BNE1255f
C 13	21	100.0	654	2	BG905270	BG905270 TaLc1138E
C 14	21	100.0	670	3	BJ296872	BJ296872 BJ296872
C 15	21	100.0	678	1	AV945607	AV945607 AV945607
C 16	21	100.0	696	3	BMI37990	BMI37990 WHE0479 A
C 17	21	100.0	700	8	DN186674	DN186674 HO28K09w
C 18	21	100.0	721	6	CD453275	CD453275 WHE1817-1
C 19	21	100.0	727	3	BJ220643	BJ220643 BJ220643
C 20	21	100.0	879	7	CK155817	CK155817 FGAS03668
C 21	21	100.0	879	7	CK156269	CK156269 FGAS03720
C 22	21	100.0	892	8	DR732145	DR732145 FGAS07806

96	17	81.0	831	8	DN023927	DN023927 JGI_CABR4	169	16.8	80.0	813	2	BG536525	BG536525 602564931
97	17	81.0	843	8	DN069207	DN069207 JGI_CABD5	170	16.8	80.0	814	8	DR834421	DR834421 JGI_CABCS
C 98	17	81.0	904	8	DN069208	DN069208 JGI_CABD5	C 171	16.8	80.0	816	8	DR834420	DR834420 JGI_CABCS
100	17	81.0	907	6	CA981862	CA981862 AGENCOURT	C 172	16.8	80.0	818	10	CL097610	CL097610 ISB1-30A2
C 101	16.8	80.0	945	2	BG545488	BG545488 602572724	C 173	16.8	80.0	821	9	CC913531	CC913531 t079c24ba
C 102	16.8	80.0	975	2	B0004178	B0004178 CM0-BN010	C 174	16.8	80.0	823	9	CC913531	CC913531 t079c24ba
C 103	16.8	80.0	160	9	CA233917	CA233917 PUPU13TB	175	16.8	80.0	836	11	CT010944	CT010944 KB-H118M0
C 104	16.8	80.0	265	2	BF987596	BF987596 CM3-GN010	176	16.8	80.0	841	2	BF027496	BF027496 601671736
C 105	16.8	80.0	266	2	B1055140	B1055140 PM0-GN034	177	16.8	80.0	843	5	BW401020	BW401020 BW401020
C 106	16.8	80.0	274	10	CL270823	CL270823 Ggal_148	178	16.8	80.0	849	10	DU075448	DU075448 66261 Tom
C 107	16.8	80.0	279	2	BB573187	BB573187 BB573187	C 179	16.8	80.0	850	11	CR065983	CR065983 Reverse s
C 108	16.8	80.0	288	1	B0011324	B0011324 B0011324	180	16.8	80.0	861	10	CR065983	CR065983 Reverse s
C 109	16.8	80.0	302	10	CM837750	CM837750 GT1737.Ds	C 181	16.8	80.0	861	10	CR065983	CR065983 Reverse s
C 110	16.8	80.0	316	9	CS513218	CS513218 CH240_357	C 182	16.8	80.0	864	11	CR065983	CR065983 Reverse s
C 111	16.8	80.0	324	2	BF747781	BF747781 RC4-BT083	C 183	16.8	80.0	867	10	CR065983	CR065983 Reverse s
C 112	16.8	80.0	338	11	FR0019156	FR0019156 F.rubripe	184	16.8	80.0	873	9	BZ786866	BZ786866 PUG775TD
C 113	16.8	80.0	370	1	AL243115	AL243115 qh26g01.x	C 185	16.8	80.0	874	11	CR259328	CR259328 Reverse s
C 114	16.8	80.0	418	1	AL243115	AL243115 qh26g01.x	C 186	16.8	80.0	884	11	CR259328	CR259328 Reverse s
C 115	16.8	80.0	420	5	BW454521	BW454521 BW454521	C 187	16.8	80.0	884	11	CR259328	CR259328 Reverse s
C 116	16.8	80.0	429	2	B8731825	B8731825 BB731825	C 188	16.8	80.0	890	10	CL428351	CL428351 ZMMBB0504
C 117	16.8	80.0	436	3	BJ653722	BJ653722 BJ653722	C 189	16.8	80.0	890	10	CL428351	CL428351 ZMMBB0504
C 118	16.8	80.0	449	9	AQ002928	AQ002928 CIT-HSP-2	C 190	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 119	16.8	80.0	453	9	AQ002928	AQ002928 CIT-HSP-2	C 191	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 120	16.8	80.0	474	1	AA481790	AA481790 aa93d05.s	C 192	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 121	16.8	80.0	477	9	AQ075126	AQ075126 CIT-HSP-2	C 193	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 122	16.8	80.0	489	1	AA691944	AA691944 vt06c06.r	C 194	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 123	16.8	80.0	494	5	BX100327	BX100327 BX100327	C 195	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 124	16.8	80.0	500	5	BX100327	BX100327 BX100327	C 196	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 125	16.8	80.0	520	9	AQ077289	AQ077289 HS_2142_B	C 197	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 126	16.8	80.0	521	8	DT005145	DT005145 VVG021B08	C 198	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 127	16.8	80.0	524	9	AQ069857	AQ069857 HS_2160_A	C 199	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 128	16.8	80.0	525	9	AZ409412	AZ409412 LM0181C06	C 200	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 129	16.8	80.0	531	1	AW850951	AW850951 IL3-CT022	C 201	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 130	16.8	80.0	541	5	BX524523	BX524523 BX524523	C 202	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 131	16.8	80.0	558	11	DE107584	DE107584 Oryzias_1	C 203	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 132	16.8	80.0	559	9	BZ921011	BZ921011 CH240_118	C 204	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 133	16.8	80.0	572	1	AJ755186	AJ755186 AJ755186	C 205	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 134	16.8	80.0	574	11	FR0019126	FR0019126 F.rubripe	C 206	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 135	16.8	80.0	582	11	FR0019152	FR0019152 F.rubripe	C 207	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 136	16.8	80.0	592	1	AV705610	AV705610 AV705610	C 208	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 137	16.8	80.0	610	10	CM550911	CM550911 OA_ABA006	C 209	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 138	16.8	80.0	639	2	B8613198	B8613198 601452194	C 210	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 139	16.8	80.0	644	9	CS004220	CS004220 tigr-ges-	C 211	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 140	16.8	80.0	645	2	B8521448	B8521448 BB521448	C 212	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 141	16.8	80.0	645	5	BQ637465	BQ637465 he10d11.y	C 213	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 142	16.8	80.0	654	8	DN051468	DN051468 JGI_CABAE	C 214	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 143	16.8	80.0	654	10	CE678867	CE678867 tigr-ges-	C 215	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 144	16.8	80.0	659	10	AG036808	AG036808 Pan_trog1	C 216	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 145	16.8	80.0	663	6	CA175278	CA175278 SCJFST101	C 217	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 146	16.8	80.0	667	9	BZ705564	BZ705564 PUEMO91TD	C 218	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 147	16.8	80.0	670	11	CR882495	CR882495 Sub_scrof	C 219	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 148	16.8	80.0	673	11	DE066376	DE066376 Oryzias_1	C 220	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 149	16.8	80.0	673	11	DE066376	DE066376 Oryzias_1	C 221	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 150	16.8	80.0	675	3	BJ668163	BJ668163 BJ668163	C 222	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 151	16.8	80.0	682	5	BW384822	BW384822 BW384822	C 223	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 152	16.8	80.0	686	7	CO357837	CO357837 DR_ATE_OR	C 224	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 153	16.8	80.0	688	7	CC717526	CC717526 OGRAP34TH	C 225	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 154	16.8	80.0	696	7	CM189036	CM189036 UCRCS06_0	C 226	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 155	16.8	80.0	712	9	BW416400	BW416400 BW416400	C 227	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 156	16.8	80.0	713	9	BH743968	BH743968 st29f07.b	C 228	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 157	16.8	80.0	715	5	BW412395	BW412395 BW412395	C 229	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 158	16.8	80.0	716	7	CRN40556	CRN40556 AGENCOURT	C 230	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 159	16.8	80.0	731	9	CC909967	CC909967 t057121ba	C 231	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 160	16.8	80.0	741	11	CNS06067	CNS06067 T7_end_of	C 232	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 161	16.8	80.0	755	10	CG084379	CG084379 PUBDK58TD	C 233	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 162	16.8	80.0	759	10	AG453996	AG453996 Mus_muscu	C 234	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 163	16.8	80.0	768	10	CM608839	CM608839 OA_ABA014	C 235	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 164	16.8	80.0	770	5	BW498502	BW498502 BW498502	C 236	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 165	16.8	80.0	771	5	BW424949	BW424949 BW424949	C 237	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 166	16.8	80.0	792	10	CL097692	CL097692 ISB1-30C2	C 238	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 167	16.8	80.0	796	2	B1085530	B1085530 602870241	C 239	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504
C 168	16.8	80.0	798	10	DU095422	DU095422 221396 To	C 240	16.8	80.0	892	10	CL428351	CL428351 ZMMBB0504

C 242	16.4	78.1	501	9	AZ155819	SP_0042 B	CL698816	SP_Ba003
C 243	16.4	78.1	505	8	CX247061	1298907 N	BB277173	BB277173
C 244	16.4	78.1	509	1	AA913977	Y91C03.X	BM194904	LO703A05-
C 245	16.4	78.1	511	1	AW989011	uf22e08.Y	CW308481	104_797_1
C 246	16.4	78.1	513	1	AI666430	ue84f10.X	CW90814	SP_Ba007
C 247	16.4	78.1	517	10	CL176622	104_383_1	CW243382	104_703_1
C 248	16.4	78.1	520	10	CW055241	104_296_1	C2747866	OC_Ba009
C 249	16.4	78.1	524	9	AQ369103	HS_5022 B	CL137995	104_525_1
C 250	16.4	78.1	527	10	CW086495	104_430_1	BW238767	603323854
C 251	16.4	78.1	534	5	CA049401	saal8rkc0	CW132127	104_515_1
C 252	16.4	78.1	537	3	BN250961	K0857F10-	CW242645	104_702_1
C 253	16.4	78.1	537	10	CW049574	104_288_1	CW142153	104_533_1
C 254	16.4	78.1	542	1	AJ774502	AJ774502	CX032806	1345084 N
C 255	16.4	78.1	568	7	CK339723	C0863E01-	CW197058	104_621_1
C 256	16.4	78.1	568	8	DN140503	SGP266540	CW308482	104_797_1
C 257	16.4	78.1	580	10	CE429516	tigr-g88-	CK312413	SB0201182
C 258	16.4	78.1	581	10	CW262733	104_730_1	CW359806	fbab001f0
C 259	16.4	78.1	588	7	CK339618	C0857D01-	CL179297	104_388_1
C 260	16.4	78.1	588	10	CW139126	104_529_1	CW483219	fbab001f2
C 261	16.4	78.1	588	10	CW337885	fbab001f0	CK330370	H8210D08-
C 262	16.4	78.1	593	10	CW785552	SP_Ba001	CW339774	104_840_1
C 263	16.4	78.1	593	10	CW023847	104_163_1	CW205834	104_634_1
C 264	16.4	78.1	594	10	CW114282	104_489_1	CW462523	fbab001f2
C 265	16.4	78.1	595	10	CW140203	104_530_1	CW356430	fbab001f0
C 266	16.4	78.1	603	9	AZ105135	RPCT-23-3	CW086496	104_430_1
C 267	16.4	78.1	604	3	BP921681	BP921681	CW474639	fbab001f2
C 268	16.4	78.1	606	10	CW787700	SP_Ba003	CW182595	104_598_1
C 269	16.4	78.1	611	7	CK106168	CPD03	CX448092	JGI_XZG26
C 270	16.4	78.1	611	10	CW087870	104_432_1	CW422520	fbab001f1
C 271	16.4	78.1	614	10	CW339775	104_840_1	CW29701	fbab001f1
C 272	16.4	78.1	616	10	CW139127	104_529_1	CW467538	fbab001f2
C 273	16.4	78.1	618	10	CW326332	104_821_1	BW254769	603742807
C 274	16.4	78.1	619	1	AW260838	EQUK0101-	CL173644	104_377_1
C 275	16.4	78.1	619	10	CW330953	104_828_1	BW218910	603755548
C 276	16.4	78.1	620	6	CA826034	R71E06.tw	DN069665	JGI_CABD5
C 277	16.4	78.1	621	10	CL703669	SP_Ba000	CW075555	104_359_1
C 278	16.4	78.1	628	9	BZ693683	SP_Ba003	CW193851	104_616_1
C 279	16.4	78.1	632	10	CW343209	104_845_1	CK097421	UBS0DP02
C 280	16.4	78.1	632	10	CL860785	OR_CBa009	DR530376	WS02732.C
C 281	16.4	78.1	633	9	BZ691817	SP_Ba001	CW077058	104_377_1
C 282	16.4	78.1	638	5	BW110540	603128174	CL106292	602890604
C 283	16.4	78.1	639	2	BE299834	600944614	BW261141	603504155
C 284	16.4	78.1	641	10	CW789630	SP_Ba005	CL191615	104_410_1
C 285	16.4	78.1	649	7	CK338734	C0806802-	CK313291	SB02037A2
C 286	16.4	78.1	649	7	CK969565	4085200 B	CX346589	JGI_XZT74
C 287	16.4	78.1	650	10	CW183926	104_600_1	BW2629074	ih64a08.g
C 288	16.4	78.1	650	10	CW342957	104_845_1	CW372431	603589244
C 289	16.4	78.1	651	10	CW140202	104_530_1	CN521145	QJ0105.B3
C 290	16.4	78.1	651	10	CW179395	104_593_1	BW250254	603401165
C 291	16.4	78.1	653	9	BH001630	BMBAC01F1	BW250254	603401165
C 292	16.4	78.1	654	10	CW175872	104_588_1	BW250254	603401165
C 293	16.4	78.1	655	6	CA370991	65134 NC	BW250254	603401165
C 294	16.4	78.1	656	10	CL166198	104_362_1	BW250254	603401165
C 295	16.4	78.1	659	10	CW173007	104_584_1	BW250254	603401165
C 296	16.4	78.1	660	9	AQ689569	nbxb0079N	BW250254	603401165
C 297	16.4	78.1	663	10	CW351302	fbab001f0	BW250254	603401165
C 298	16.4	78.1	665	10	CL826416	OR_CBa004	BW250254	603401165
C 299	16.4	78.1	667	6	CF731130	UI-W-CZ0-	BW250254	603401165
C 300	16.4	78.1	667	10	CW068824	fbab001f1	BW250254	603401165
C 301	16.4	78.1	668	10	CW293966	104_774_1	BW250254	603401165
C 302	16.4	78.1	669	5	BW266334	603508524	BW250254	603401165
C 303	16.4	78.1	675	10	CW484524	fbab001f2	BW250254	603401165
C 304	16.4	78.1	676	6	CD473260	na003-12m	BW250254	603401165
C 305	16.4	78.1	676	10	CW244264	104_705_1	BW250254	603401165
C 306	16.4	78.1	682	7	CK977958	4109423 B	BW250254	603401165
C 307	16.4	78.1	683	10	CW373886	fbab001f0	BW250254	603401165
C 308	16.4	78.1	684	9	BZ343013	h032h04.b	BW250254	603401165
C 309	16.4	78.1	684	10	CW117393	104_493_1	BW250254	603401165
C 310	16.4	78.1	684	10	CW247365	104_708_1	BW250254	603401165
C 311	16.4	78.1	684	10	CW498109	fbab001f2	BW250254	603401165
C 312	16.4	78.1	684	10	CL179298	104_388_1	BW250254	603401165
C 313	16.4	78.1	685	10	CW342958	104_845_1	BW250254	603401165
C 314	16.4	78.1	688	10	CW474638	fbab001f2	BW250254	603401165

388	16.4	78.1	893	10	BX180149	BX180149	Danio rer	CW069219	104_319_1		
389	16.4	78.1	924	8	DN100056	JGI CABE8		10	CW069219		
390	16.4	78.1	929	10	CL502263	CL502263	SAIL 70 F	521	9	AQ248114	HS_2045_B
391	16.4	78.1	937	5	B0368176	603787104		526	9	AQ068538	HS_2124_B
392	16.4	78.1	949	9	CC332102	OGUBM67TH		537	7	CK892975	SGF153043
393	16.4	78.1	1079	10	CZ926260	109842121		543	9	AQ068085	HS_2134_B
394	16.4	78.1	1237	9	BZ697076	SP_Ba009		544	8	CX572636	TYE000266
395	16.4	78.1	1307	4	AK044238	MuB_muscu		548	9	AQ992199	nbe00085A
396	16.2	77.1	136	9	BH015799	TDCGF01TH		551	1	AW680332	WSI_51_D0
397	16.2	77.1	208	10	CE634573	tigr-gss-		557	1	AJ789209	AJ7892309
398	16.2	77.1	240	9	CA482845	CH240_311		557	1	AV700702	AV700702
399	16.2	77.1	265	9	AZ888615	RPCI-23-1		559	3	BM085583	eah30607
400	16.2	77.1	265	10	CE389947	tigr-gss-		559	9	BM085583	eah30607
401	16.2	77.1	308	8	W15810	mb51d05_r1		559	9	BM085583	eah30607
402	16.2	77.1	315	9	BZ689162	PUBN131TD		562	3	BM085583	eah30607
403	16.2	77.1	320	9	AQ007600	CIT-HSP-2		562	3	BM085583	eah30607
404	16.2	77.1	334	1	AW742727	up52a08.x		562	3	BM085583	eah30607
405	16.2	77.1	339	5	BX638258	BX638258		562	3	BM085583	eah30607
406	16.2	77.1	341	8	DN986272	MSU_2BR_2		562	3	BM085583	eah30607
407	16.2	77.1	349	1	AA172437	mt03a09_x		562	3	BM085583	eah30607
408	16.2	77.1	356	1	AW044081	wy68c05.x		562	3	BM085583	eah30607
409	16.2	77.1	365	10	AL759996	Arabidops		562	3	BM085583	eah30607
410	16.2	77.1	373	9	AQ075035	CIT-HSP-2		562	3	BM085583	eah30607
411	16.2	77.1	376	5	BY415867	BY415867		562	3	BM085583	eah30607
412	16.2	77.1	383	10	AL939975	Arabidops		562	3	BM085583	eah30607
413	16.2	77.1	387	5	BY660896	BY660896		562	3	BM085583	eah30607
414	16.2	77.1	389	9	AQ078603A	HS_3082_B		562	3	BM085583	eah30607
415	16.2	77.1	394	5	BY622334	BY622334		562	3	BM085583	eah30607
416	16.2	77.1	394	9	B38479	HS-1047-B2-		562	3	BM085583	eah30607
417	16.2	77.1	403	10	CL454441	CL454441		562	3	BM085583	eah30607
418	16.2	77.1	406	2	BB851293	BB851293		562	3	BM085583	eah30607
419	16.2	77.1	413	2	B8584324	ux31d12.x		562	3	BM085583	eah30607
420	16.2	77.1	415	10	CL296991	CL296991		562	3	BM085583	eah30607
421	16.2	77.1	417	5	BY455892	BY455892		562	3	BM085583	eah30607
422	16.2	77.1	418	5	BM571717	BM571717		562	3	BM085583	eah30607
423	16.2	77.1	418	5	BY458756	BY458756		562	3	BM085583	eah30607
424	16.2	77.1	418	5	BY616227	BY616227		562	3	BM085583	eah30607
425	16.2	77.1	419	5	BY616384	BY616384		562	3		

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 72.568 Seconds  
(without alignments)  
514.397 Million cell updates/sec

Title: US-10-805-973-2

Perfect score: 21

Sequence: 1 gtaggacaagaactgcatg 21

Scoring table:

IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

Issued\_Patents\_NA.\*

1: /cgn2\_6/ptodata/1/ina/1 COMB.seq.\*

2: /cgn2\_6/ptodata/1/ina/5 COMB.seq.\*

3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*

4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*

5: /cgn2\_6/ptodata/1/ina/H COMB.seq.\*

6: /cgn2\_6/ptodata/1/ina/PCrus COMB.seq.\*

7: /cgn2\_6/ptodata/1/ina/PP COMB.seq.\*

8: /cgn2\_6/ptodata/1/ina/RE COMB.seq.\*

9: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	19.4	92.4	2279	3	US-10-258-842-4
C 2	19.4	92.4	2301	3	US-10-258-842-2
C 3	17.8	84.8	601	3	US-09-949-002-2957
C 4	17.8	84.8	601	3	US-09-949-002-9352
C 5	17.8	84.8	15595	3	US-09-949-002-816
C 6	17.4	82.9	12827	3	US-09-949-016-15541
C 7	16.8	80.0	601	3	US-09-949-016-15541
C 8	16.8	80.0	601	3	US-09-949-016-23154
C 9	16.8	80.0	601	3	US-09-949-016-204380
C 10	16.8	80.0	601	3	US-09-949-016-204381
C 11	16.8	80.0	13193	3	US-09-949-016-17515
C 12	16.8	80.0	14079	3	US-09-949-016-11993
C 13	16.8	80.0	113060	3	US-09-949-016-14773
C 14	16.8	80.0	113060	3	US-09-949-016-14773
C 15	16.4	78.1	12122	3	US-09-949-016-16902
C 16	16.2	77.1	574	3	US-09-270-767-5285
C 17	16.2	77.1	574	3	US-09-270-767-20567
C 18	16.2	77.1	601	3	US-09-949-016-75838
C 19	16.2	77.1	936	3	US-09-222-939-9
C 20	16.2	77.1	1683	3	US-08-983-045-3
C 21	16.2	77.1	6564	3	US-09-966-880A-10
C 22	16.2	77.1	11204	3	US-09-966-880A-35
C 23	16.2	77.1	14684	3	US-09-949-016-13942
C 24	16.2	77.1	19454	3	US-09-949-016-13532

25	16.2	77.1	42348	3	US-09-949-016-17157	Sequence 17157, A
C 26	16.2	77.1	75395	3	US-09-984-890-3	Sequence 3, Appli
C 27	16.2	77.1	75395	3	US-10-274-194-3	Sequence 3, Appli
C 28	16.2	77.1	75395	3	US-10-760-407-3	Sequence 3, Appli
C 29	16.2	77.1	124884	3	US-03-661-596A-76	Sequence 76, Appli
C 30	16.2	77.1	124884	3	US-09-913-514-1	Sequence 1, Appli
C 31	16.2	77.1	124884	3	US-10-288-823-76	Sequence 76, Appli
C 32	16.2	77.1	125157	3	US-09-913-514-2	Sequence 2, Appli
C 33	16.2	77.1	601	3	US-09-949-016-180750	Sequence 180750, A
C 34	16.2	77.1	1095	3	US-09-949-016-5196	Sequence 5196, Ap
C 35	16.2	77.1	6435	3	US-09-949-016-2884	Sequence 2884, Ap
C 36	16.2	77.1	6435	3	US-09-949-016-2885	Sequence 2885, Ap
C 37	16.2	77.1	6594	3	US-09-949-016-2990	Sequence 2990, Ap
C 38	16.2	77.1	6594	3	US-09-949-016-2991	Sequence 2991, Ap
C 39	16.2	77.1	21914	3	US-09-949-016-14626	Sequence 14626, A
C 40	16.2	77.1	21914	3	US-09-949-016-14627	Sequence 14627, A
C 41	16.2	77.1	21914	3	US-09-949-016-14732	Sequence 14732, A
C 42	16.2	77.1	21914	3	US-09-949-016-14733	Sequence 14733, A
C 43	16.2	77.1	70770	3	US-09-949-016-16938	Sequence 16938, A
C 44	15.8	75.2	290	3	US-09-280-116-129	Sequence 129, App
C 45	15.8	75.2	601	3	US-09-949-016-157972	Sequence 157972, A
C 46	15.8	75.2	1121	2	US-08-207-412B-1	Sequence 1, Appli
C 47	15.8	75.2	1121	6	PCT-US95-02950-1	Sequence 1, Appli
C 48	15.8	75.2	1422	2	US-08-439-725A-1	Sequence 1, Appli
C 49	15.8	75.2	1422	2	US-08-867-471-1	Sequence 1, Appli
C 50	15.8	75.2	1422	3	US-08-705-245-18	Sequence 18, Appl
C 51	15.8	75.2	1422	3	US-09-490-714-18	Sequence 18, Appl
C 52	15.8	75.2	1422	6	PCT-US96-06664-1	Sequence 1, Appli
C 53	15.8	75.2	2010	3	US-09-247-155-151	Sequence 151, App
C 54	15.8	75.2	2010	3	US-09-903-190-151	Sequence 151, App
C 55	15.8	75.2	2099	3	US-09-800-729-56	Sequence 56, Appl
C 56	15.8	75.2	2108	3	US-09-800-729-20	Sequence 20, Appl
C 57	15.8	75.2	3495	3	US-09-976-594-118	Sequence 118, App
C 58	15.8	75.2	10713	3	US-09-949-016-15928	Sequence 15928, A
C 59	15.8	75.2	36159	3	US-09-749-588-3	Sequence 3, Appli
C 60	15.8	75.2	36159	3	US-09-949-016-16147	Sequence 3, Appli
C 61	15.8	75.2	39937	3	US-10-135-687-3	Sequence 16147, A
C 62	15.8	75.2	42232	3	US-09-949-016-11917	Sequence 11917, A
C 63	15.8	75.2	42234	3	US-09-949-016-13705	Sequence 13705, A
C 64	15.8	75.2	135476	3	US-09-949-016-12611	Sequence 12611, A
C 65	15.8	75.2	135476	3	US-09-949-016-14413	Sequence 14413, A
C 66	15.8	75.2	288449	3	US-09-949-016-17244	Sequence 17244, A
C 67	15.8	75.2	462589	3	US-09-949-016-12900	Sequence 12900, A
C 68	15.8	75.2	476044	3	US-09-949-016-12412	Sequence 12412, A
C 69	15.4	73.3	601	3	US-09-949-016-30856	Sequence 30856, A
C 70	15.4	73.3	601	3	US-09-949-016-44966	Sequence 44966, A
C 71	15.4	73.3	601	3	US-09-949-016-73200	Sequence 73200, A
C 72	15.4	73.3	816	3	US-09-107-532A-1503	Sequence 1503, Ap
C 73	15.4	73.3	36456	3	US-09-949-016-12404	Sequence 12404, A
C 74	15.4	73.3	36457	3	US-09-949-016-13031	Sequence 13031, A
C 75	15.4	73.3	62386	3	US-09-949-016-12823	Sequence 12823, A
C 76	15.4	73.3	202111	3	US-09-949-016-13877	Sequence 13877, A
C 77	15.4	73.3	283538	3	US-09-949-016-13506	Sequence 13506, A
C 78	15.2	72.4	336	3	US-09-248-796A-10816	Sequence 10816, A
C 79	15.2	72.4	369	3	US-09-621-976-19178	Sequence 19178, A
C 80	15.2	72.4	442	3	US-09-513-999C-15779	Sequence 15779, A
C 81	15.2	72.4	538	3	US-09-854-133-332	Sequence 332, App
C 82	15.2	72.4	601	3	US-09-949-016-47298	Sequence 47298, A
C 83	15.2	72.4	601	3	US-09-949-016-47298	Sequence 47299, A
C 84	15.2	72.4	601	3	US-09-949-016-47300	Sequence 47300, A
C 85	15.2	72.4	601	3	US-09-949-016-55289	Sequence 55289, A
C 86	15.2	72.4	601	3	US-09-949-016-74503	Sequence 74503, A
C 87	15.2	72.4	601	3	US-09-949-016-80044	Sequence 80044, A
C 88	15.2	72.4	700	3	US-09-735-271-492	Sequence 492, App
C 89	15.2	72.4	707	3	US-08-896-164-1	Sequence 1, Appli
C 90	15.2	72.4	934	3	US-08-842-306B-5	Sequence 5, Appli
C 91	15.2	72.4	934	3	US-08-838-973B-5	Sequence 5, Appli
C 92	15.2	72.4	934	3	US-08-771-212A-5	Sequence 5, Appli
C 93	15.2	72.4	934	3	US-09-945-249-5	Sequence 5, Appli
C 94	15.2	72.4	934	3	US-09-041-990-5	Sequence 5, Appli
C 95	15.2	72.4	1278	3	US-09-328-352-711	Sequence 711, App
C 96	15.2	72.4	1500	2	US-08-704-398-1	Sequence 1, Appli
C 97	15.2	72.4	1500	6	PCT-US95-05966-1	Sequence 1, Appli

98	15.2	72.4	2082	3	US-09-107-532A-2158	Sequence 2158, Ap	171	14.8	70.5	340380	3	US-09-949-016-14179	Sequence 14179, A
99	15.2	72.4	2152	2	US-07-779-890-1	Sequence 1, Appli	172	14.8	70.5	390890	3	US-09-949-016-14720	Sequence 14720, A
100	15.2	72.4	2152	2	US-07-779-890-1	Sequence 1, Appli	c 173	14.8	70.5	1830121	3	US-09-557-884-1	Sequence 1, Appli
101	15.2	72.4	2152	6	PT-US93-05640-1	Sequence 1, Appli	c 174	14.8	70.5	1830121	3	US-09-643-990A-1	Sequence 1, Appli
c 102	15.2	72.4	17327	2	US-07-906-871-15	Sequence 15, Appl	c 175	14.8	70.5	1830121	3	US-10-158-865-1	Sequence 32920, A
c 103	15.2	72.4	22347	3	US-09-949-016-13290	Sequence 13290, A	176	14.6	69.5	287	3	US-09-513-999C-32920	Sequence 293, App
c 104	15.2	72.4	31820	3	US-09-949-016-13356	Sequence 13356, A	177	14.6	69.5	395	3	US-10-002-623-293	Sequence 296, App
c 105	15.2	72.4	43377	3	US-09-949-016-11840	Sequence 11840, A	178	14.6	69.5	395	3	US-10-002-623-296	Sequence 299, App
c 106	15.2	72.4	44378	3	US-09-949-016-15969	Sequence 15969, A	179	14.6	69.5	395	3	US-10-002-623-399	Sequence 436, App
c 107	15.2	72.4	50563	3	US-09-949-016-15821	Sequence 15821, A	180	14.6	69.5	447	3	US-09-134-001C-998	Sequence 998, App
c 108	15.2	72.4	56594	3	US-09-949-016-12568	Sequence 12568, A	c 181	14.6	69.5	601	3	US-09-949-016-19529	Sequence 19529, A
c 109	15.2	72.4	56702	3	US-09-949-016-15423	Sequence 15423, A	c 182	14.6	69.5	601	3	US-09-949-016-24364	Sequence 24364, A
c 110	15.2	72.4	64610	3	US-09-949-016-12214	Sequence 12214, A	184	14.6	69.5	601	3	US-09-949-016-67022	Sequence 67022, A
c 111	15.2	72.4	67386	3	US-09-949-016-16519	Sequence 16519, A	185	14.6	69.5	601	3	US-09-949-016-94790	Sequence 94790, A
c 112	15.2	72.4	77036	3	US-09-949-016-16156	Sequence 16156, A	c 186	14.6	69.5	601	3	US-09-949-016-13373	Sequence 13373, A
c 113	15.2	72.4	79824	3	US-09-949-016-13919	Sequence 13919, A	186	14.6	69.5	601	3	US-09-949-016-138315	Sequence 138315, A
c 114	15.2	72.4	83210	3	US-09-949-016-14209	Sequence 14209, A	187	14.6	69.5	601	3	US-09-949-016-138316	Sequence 138316, A
c 115	15.2	72.4	101011	3	US-09-949-016-16933	Sequence 16933, A	188	14.6	69.5	601	3	US-09-949-016-138317	Sequence 138317, A
c 116	15.2	72.4	101558	3	US-09-949-016-12243	Sequence 12243, A	189	14.6	69.5	601	3	US-09-949-016-162438	Sequence 162438, A
c 117	15.2	72.4	145241	3	US-09-949-016-17394	Sequence 17394, A	c 190	14.6	69.5	601	3	US-09-949-016-165313	Sequence 165313, A
c 118	15.2	72.4	145241	3	US-09-949-016-17395	Sequence 17395, A	191	14.6	69.5	601	3	US-09-949-016-199535	Sequence 199535, A
c 119	15.2	72.4	186959	3	US-09-949-016-13125	Sequence 13125, A	192	14.6	69.5	601	3	US-09-949-002-4167	Sequence 4167, Ap
c 120	15.2	72.4	276687	3	US-09-949-016-13840	Sequence 13840, A	193	14.6	69.5	601	3	US-09-949-002-4168	Sequence 4168, Ap
c 121	15.2	72.4	312470	3	US-09-949-016-14043	Sequence 14043, A	194	14.6	69.5	601	3	US-09-949-002-7988	Sequence 7988, Ap
c 122	15.2	72.4	336024	3	US-09-949-016-12373	Sequence 12373, A	c 195	14.6	69.5	601	3	US-09-907-907A-12	Sequence 12, Appl
c 123	15.2	72.4	421493	3	US-09-949-016-12805	Sequence 12805, A	196	14.6	69.5	669	3	US-09-248-796A-3113	Sequence 3113, Ap
c 124	15.2	72.4	421494	3	US-09-949-016-14060	Sequence 14060, A	c 197	14.6	69.5	681	3	US-09-325-932A-99	Sequence 99, Appl
c 125	15	71.4	2833	3	US-09-276-531-23	Sequence 23, Appl	c 198	14.6	69.5	700	3	US-09-583-110-617	Sequence 617, App
c 126	15	71.4	2880	2	US-08-987-289-1	Sequence 1, Appli	199	14.6	69.5	750	3	US-09-107-433-817	Sequence 817, App
c 127	15	71.4	49407	3	US-09-949-016-12532	Sequence 12532, A	200	14.6	69.5	771	3	US-08-778-912A-4	Sequence 4, Appli
c 128	15	71.4	49408	3	US-09-949-016-17045	Sequence 17045, A	c 201	14.6	69.5	870	2	US-09-541-941B-4	Sequence 1, Appli
c 129	15	71.4	65744	3	US-09-949-016-12591	Sequence 12591, A	c 202	14.6	69.5	870	2	US-08-778-912A-1	Sequence 2, Appli
c 130	15	71.4	65745	3	US-09-949-016-15871	Sequence 15871, A	c 203	14.6	69.5	874	2	US-09-541-941B-2	Sequence 3, Appli
c 131	14.8	70.5	601	3	US-09-949-016-135516	Sequence 135516, A	c 204	14.6	69.5	875	2	US-08-778-912A-5	Sequence 5, Appli
c 132	14.8	70.5	601	3	US-09-949-016-135517	Sequence 135517, A	c 205	14.6	69.5	875	2	US-08-778-912A-6	Sequence 6, Appli
c 133	14.8	70.5	601	3	US-09-949-016-135536	Sequence 135536, A	c 206	14.6	69.5	875	2	US-08-778-912A-7	Sequence 7, Appli
c 134	14.8	70.5	601	3	US-09-949-016-135537	Sequence 135537, A	c 207	14.6	69.5	875	2	US-09-541-941B-1	Sequence 1, Appli
c 135	14.8	70.5	601	3	US-09-949-016-155584	Sequence 155584, A	c 208	14.6	69.5	875	2	US-09-541-941B-5	Sequence 5, Appli
c 136	14.8	70.5	601	3	US-09-949-016-155585	Sequence 155585, A	c 209	14.6	69.5	875	2	US-08-778-912A-6	Sequence 6, Appli
c 137	14.8	70.5	601	3	US-09-949-016-155683	Sequence 155683, A	c 210	14.6	69.5	875	2	US-09-541-941B-6	Sequence 6, Appli
c 138	14.8	70.5	601	3	US-09-949-016-155684	Sequence 155684, A	c 211	14.6	69.5	875	2	US-09-541-941B-22	Sequence 22, Appl
c 139	14.8	70.5	601	3	US-09-949-016-190705	Sequence 190705, A	c 212	14.6	69.5	875	2	US-09-541-941B-23	Sequence 23, Appl
c 140	14.8	70.5	601	3	US-09-949-016-206734	Sequence 206734, A	c 213	14.6	69.5	876	2	US-09-541-941B-24	Sequence 24, Appl
c 141	14.8	70.5	769	3	US-09-270-767-2284	Sequence 2284, Ap	c 214	14.6	69.5	891	3	US-09-541-941B-25	Sequence 25, Appl
c 142	14.8	70.5	769	3	US-09-270-767-17566	Sequence 17566, A	c 215	14.6	69.5	898	3	US-09-541-941B-25	Sequence 25, Appl
c 143	14.8	70.5	796	3	US-09-861-451A-73	Sequence 73, Appl	c 216	14.6	69.5	898	3	US-09-541-941B-18	Sequence 18, Appl
c 144	14.8	70.5	966	3	US-09-371-307-58	Sequence 58, Appl	c 217	14.6	69.5	898	3	US-09-541-941B-17	Sequence 17, Appl
c 145	14.8	70.5	1887	3	US-09-248-796A-5153	Sequence 5153, Ap	c 218	14.6	69.5	898	3	US-09-541-941B-19	Sequence 19, Appl
c 146	14.8	70.5	2260	3	US-09-221-017B-33	Sequence 33, Appl	c 219	14.6	69.5	917	3	US-08-476-008-41	Sequence 41, Appl
c 147	14.8	70.5	4170	3	US-09-371-307-57	Sequence 57, Appl	c 220	14.6	69.5	918	3	US-08-306-063-41	Sequence 41, Appl
c 148	14.8	70.5	5962	3	US-09-949-016-17076	Sequence 17076, A	c 221	14.6	69.5	918	3	US-09-137-440-41	Sequence 41, Appl
c 149	14.8	70.5	12790	3	US-09-949-016-12188	Sequence 12188, A	c 222	14.6	69.5	918	3	US-09-620-312D-756	Sequence 756, App
c 150	14.8	70.5	33314	3	US-09-949-016-13128	Sequence 13128, A	c 223	14.6	69.5	918	3	US-09-325-932A-102	Sequence 102, App
c 151	14.8	70.5	36016	3	US-09-949-016-14223	Sequence 14223, A	c 224	14.6	69.5	1287	2	US-09-270-767-26107	Sequence 26107, A
c 152	14.8	70.5	36154	3	US-09-949-016-13190	Sequence 13190, A	c 225	14.6	69.5	1287	2	US-09-270-767-10662	Sequence 10662, A
c 153	14.8	70.5	4698	3	US-09-949-016-17323	Sequence 17323, A	c 226	14.6	69.5	1287	2	US-09-489-039A-45	Sequence 45, Appl
c 154	14.8	70.5	47184	3	US-09-949-016-13647	Sequence 13647, A	c 227	14.6	69.5	1287	2	US-09-949-016-1239	Sequence 1239, Ap
c 155	14.8	70.5	51984	3	US-09-949-016-15531	Sequence 15531, A	c 228	14.6	69.5	1287	2	US-10-012-231A-57	Sequence 57, Appl
c 156	14.8	70.5	54294	3	US-09-949-016-16498	Sequence 16498, A	c 229	14.6	69.5	1287	2	US-10-015-389A-57	Sequence 57, Appl
c 157	14.8	70.5	54382	3	US-09-949-016-12139	Sequence 12139, A	c 230	14.6	69.5	1287	2	US-10-006-768A-57	Sequence 57, Appl
c 158	14.8	70.5	70323	3	US-09-949-016-17594	Sequence 17594, A	c 231	14.6	69.5	1287	2	US-10-015-671A-57	Sequence 57, Appl
c 159	14.8	70.5	74790	3	US-09-949-016-15321	Sequence 15321, A	c 232	14.6	69.5	1287	2	US-10-015-931A-57	Sequence 57, Appl
c 160	14.8	70.5	75929	3	US-09-949-016-15543	Sequence 15543, A	c 233	14.6	69.5	1287	2	US-10-011-833A-57	Sequence 57, Appl
c 161	14.8	70.5	75929	3	US-09-949-016-15543	Sequence 15543, A	c 234	14.6	69.5	1287	2	US-10-006-041A-57	Sequence 57, Appl
c 162	14.8	70.5	93971	3	US-09-949-016-16356	Sequence 16356, A	c 235	14.6	69.5	1287	2	US-10-012-064A-57	Sequence 57, Appl
c 163	14.8	70.5	93971	3	US-09-949-016-16356	Sequence 16356, A	c 236	14.6	69.5	1287	2	US-09-614-221A-231	Sequence 231, App
c 164	14.8	70.5	93971	3	US-09-949-016-16098	Sequence 16098, A	c 237	14.6	69.5	1287	2	US-10-087-345A-9	Sequence 9, Appli
c 165	14.8	70.5	129658	3	US-09-949-016-17195	Sequence 17195, A	c 238	14.6	69.5	1287	2		
c 166	14.8	70.5	141560	3	US-09-949-016-16476	Sequence 16476, A	c 239	14.6	69.5	1287	2		
c 167	14.8	70.5	165651	3	US-09-949-016-13032	Sequence 13032, A	c 240	14.6	69.5	1287	2		
c 168	14.8	70.5	177669	3	US-09-949-016-13713	Sequence 13713, A	c 241	14.6	69.5	1287	2		
c 169	14.8	70.5	181429	3	US-09-949-016-12372	Sequence 12372, A	c 242	14.6	69.5	1287	2		
c 170	14.8	70.5	181430	3	US-09-949-016-15772	Sequence 15772, A	c 243	14.6	69.5	1287	2		



C 244	14.6	69.5	8374	3	US-09-949-016-15257	Sequence 15257, A	C 317	14.4	68.6	221545	3	US-09-949-016-13875	Sequence 13875, A
C 245	14.6	69.5	11230	3	US-09-949-016-12981	Sequence 12981, A	318	14.4	68.6	387902	3	US-09-949-016-14543	Sequence 14543, A
C 246	14.6	69.5	13203	3	US-09-949-016-16680	Sequence 16680, A	319	14.4	68.6	421883	3	US-09-949-016-12557	Sequence 12557, A
C 247	14.6	69.5	13206	3	US-08-961-527-33	Sequence 33, Appl	C 320	14.4	68.6	678533	3	US-09-949-016-14577	Sequence 14577, A
C 248	14.6	69.5	21211	3	US-09-949-016-14359	Sequence 14359, A	C 321	14.4	68.6	678533	3	US-09-949-016-14577	Sequence 14577, A
C 249	14.6	69.5	21211	3	US-09-949-016-14909	Sequence 14909, A	C 322	14.2	67.6	191	3	US-09-513-999C-16268	Sequence 16268, A
C 250	14.6	69.5	24205	3	US-09-949-016-15385	Sequence 15385, A	C 323	14.2	67.6	216	3	US-09-107-532A-2912	Sequence 2912, Ap
C 251	14.6	69.5	28884	3	US-09-949-016-16401	Sequence 16401, A	C 324	14.2	67.6	234	3	US-09-270-767-6343	Sequence 6343, Ap
C 252	14.6	69.5	37822	3	US-09-949-016-16291	Sequence 16291, A	C 325	14.2	67.6	234	3	US-09-270-767-9226	Sequence 9226, Ap
C 253	14.6	69.5	43095	3	US-09-676-519-17	Sequence 17, Appl	C 326	14.2	67.6	234	3	US-09-270-767-21625	Sequence 21625, A
C 254	14.6	69.5	44248	3	US-09-949-016-11829	Sequence 11829, A	C 327	14.2	67.6	234	3	Sequence 24508, A	Sequence 24508, A
C 255	14.6	69.5	44249	3	US-09-949-016-14485	Sequence 14485, A	C 328	14.2	67.6	243	3	Sequence 26, Appl	Sequence 26, Appl
C 256	14.6	69.5	44249	3	US-09-949-016-14491	Sequence 14491, A	C 329	14.2	67.6	243	3	Sequence 27, Appl	Sequence 27, Appl
C 257	14.6	69.5	48794	3	US-09-949-016-15637	Sequence 15637, A	C 330	14.2	67.6	248	3	Sequence 27, Appl	Sequence 27, Appl
C 258	14.6	69.5	52971	3	US-09-949-016-16452	Sequence 16452, A	C 331	14.2	67.6	248	3	Sequence 4038, Ap	Sequence 4038, Ap
C 259	14.6	69.5	60465	3	US-09-949-016-15995	Sequence 15995, A	C 332	14.2	67.6	370	3	Sequence 19320, A	Sequence 19320, A
C 260	14.6	69.5	64610	3	US-09-949-016-12214	Sequence 12214, A	C 333	14.2	67.6	370	3	Sequence 906, App	Sequence 906, App
C 261	14.6	69.5	102008	3	US-09-949-016-16617	Sequence 16617, A	C 334	14.2	67.6	558	3	Sequence 44061, A	Sequence 44061, A
C 262	14.6	69.5	109038	3	US-09-949-016-12199	Sequence 12199, A	C 335	14.2	67.6	601	3	Sequence 57433, A	Sequence 57433, A
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## ALIGNMENTS

## RESULT 1

US-10-258-842-4/c

; Sequence 4, Application US/10258842

; Patent No. 6943280

; GENERAL INFORMATION:

; APPLICANT: Board of Supervisors of Louisiana State University and Agricultural and

; APPLICANT: Mechanical College

; APPLICANT: Croughan, Timothy

; TITLE OF INVENTION: RESISTANCE TO ACETOHYDROXYACID SYNTHASE-INHIBITING HERBICIDES

; FILE REFERENCE: 98A9.2-PCT Croughan

; CURRENT APPLICATION NUMBER: US/10/258,842

; CURRENT FILING DATE: 2002-10-28

; PRIOR APPLICATION NUMBER: US 60/203,434

; PRIOR FILING DATE: 2000-05-10

; NUMBER OF SEQ ID NOS: 25

; SOFTWARE: PatentIn version 3.0; and WordPerfect version 8

; SEQ ID NO 4

; LENGTH: 2279

; TYPE: DNA

; ORGANISM: Oryza sativa

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: Herbicide resistant AHAS sequence, variety Kinmaze

; PUBLICATION INFORMATION:

; DATABASE ACCESSION NUMBER: BLAST / AB049823

; DATABASE ENTRY DATE: 2001-04-14

US-10-258-842-4

Query Match 92.4%; Score 19.4; DB 3; Length 2279;

Best Local Similarity 95.2%; Pred. No. 4.7;



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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:03:35 ; Search time 504.621 Seconds  
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Title: US-10-805-973-2

Perfect score: 21

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Scoring table: IDENTITY NUC

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Searched: 9793542 seqs, 4134589005 residues

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#### SUMMARIES

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18	16.8	80.0	565	5	US-10-027-632-206343
19	16.8	80.0	565	5	US-10-027-632-206343
20	16.8	80.0	565	6	US-10-027-632-206343
21	16.8	80.0	565	6	US-10-027-632-206344
22	16.8	80.0	600	9	US-10-972-079-64020
23	16.8	80.0	661	5	US-10-027-632-256809

24	16.8	80.0	661	6	US-10-027-632-256809	Sequence 256809,
25	16.8	80.0	663	5	US-10-027-632-210891	Sequence 210891,
26	16.8	80.0	663	5	US-10-027-632-210892	Sequence 210892,
27	16.8	80.0	663	5	US-10-027-632-210893	Sequence 210893,
28	16.8	80.0	663	5	US-10-027-632-210894	Sequence 210894,
29	16.8	80.0	663	6	US-10-027-632-210891	Sequence 210891,
30	16.8	80.0	663	6	US-10-027-632-210892	Sequence 210892,
31	16.8	80.0	663	6	US-10-027-632-210893	Sequence 210893,
32	16.8	80.0	663	6	US-10-027-632-210894	Sequence 210894,
33	16.8	80.0	704	5	US-10-027-632-58046	Sequence 58046, A
34	16.8	80.0	704	5	US-10-027-632-59080	Sequence 59080, A
35	16.8	80.0	704	6	US-10-027-632-58046	Sequence 58046, A
36	16.8	80.0	704	6	US-10-027-632-59080	Sequence 59080, A
37	16.8	80.0	730	5	US-10-027-632-38474	Sequence 38474, A
38	16.8	80.0	730	6	US-10-027-632-38474	Sequence 38474, A
39	16.8	80.0	1184	5	US-10-198-846-12079	Sequence 12079, A
40	16.8	80.0	3054	7	US-10-437-963-44639	Sequence 44639, A
41	16.8	80.0	58803	5	US-10-087-192-685	Sequence 685, App
42	16.8	80.0	93544	7	US-10-322-281-676	Sequence 676, App
43	16.4	78.1	25	8	US-10-719-900-471017	Sequence 471017,
44	16.4	78.1	400	7	US-10-242-535A-57766	Sequence 57766, A
45	16.4	78.1	400	7	US-10-085-783A-57766	Sequence 57766, A
46	16.4	78.1	507	5	US-10-138-846-9684	Sequence 9684, Ap
47	16.4	78.1	629	5	US-10-027-632-231672	Sequence 231672,
48	16.4	78.1	629	6	US-10-027-632-231672	Sequence 231672,
49	16.4	78.1	659	5	US-10-027-632-207081	Sequence 207081,
50	16.4	78.1	659	6	US-10-027-632-207081	Sequence 207081,
51	16.4	78.1	87467	7	US-10-741-601-5634	Sequence 5634, Ap
52	16.4	78.1	87467	8	US-10-741-600-17624	Sequence 17624, A
53	16.4	78.1	3186778	5	US-10-027-632-174961	Sequence 174961,
54	16.4	78.1	3186778	6	US-10-027-632-194961	Sequence 174961,
55	16.2	77.1	201	8	US-10-741-600-70499	Sequence 70499, A
56	16.2	77.1	309	3	US-09-987-899-4607	Sequence 4607, Ap
57	16.2	77.1	366	8	US-10-425-115-148883	Sequence 148883, A
58	16.2	77.1	554	7	US-10-767-701-28557	Sequence 28557, A
59	16.2	77.1	558	4	US-09-925-065A-784240	Sequence 784240,
60	16.2	77.1	558	4	US-09-925-065A-793266	Sequence 793266,
61	16.2	77.1	558	4	US-09-925-065A-844267	Sequence 844267,
62	16.2	77.1	572	4	US-09-925-065A-111549	Sequence 111549,
63	16.2	77.1	573	4	US-09-925-065A-345839	Sequence 345839,
64	16.2	77.1	588	4	US-09-925-065A-708764	Sequence 708764,
65	16.2	77.1	600	9	US-10-972-079-70608	Sequence 70608, A
66	16.2	77.1	625	4	US-09-925-065A-793266	Sequence 793266,
67	16.2	77.1	625	4	US-09-925-065A-793267	Sequence 793267,
68	16.2	77.1	627	5	US-10-027-632-141793	Sequence 141793,
69	16.2	77.1	627	6	US-10-027-632-141793	Sequence 141793,
70	16.2	77.1	647	5	US-10-027-632-141794	Sequence 141794,
71	16.2	77.1	647	6	US-10-027-632-141794	Sequence 141794,
72	16.2	77.1	733	8	US-10-425-115-76797	Sequence 76797, A
73	16.2	77.1	814	5	US-10-027-632-141795	Sequence 141795,
74	16.2	77.1	814	6	US-10-027-632-141795	Sequence 141795,
75	16.2	77.1	860	7	US-10-437-963-4099	Sequence 4099, Ap
76	16.2	77.1	865	7	US-10-424-599-110865	Sequence 110865,
77	16.2	77.1	1286	4	US-09-925-065A-516	Sequence 516, App
78	16.2	77.1	1286	4	US-09-925-065A-517	Sequence 517, App
79	16.2	77.1	1286	4	US-09-925-065A-518	Sequence 518, App
80	16.2	77.1	1777	7	US-10-437-963-34366	Sequence 34366, A
81	16.2	77.1	2192	7	US-10-424-599-24402	Sequence 24402, A
82	16.2	77.1	3327	3	US-09-938-842A-357	Sequence 357, App
83	16.2	77.1	3327	3	US-09-938-842A-357	Sequence 357, App
84	16.2	77.1	5487	7	US-10-437-963-34360	Sequence 34360, A
85	16.2	77.1	5936	10	US-11-097-143-10318	Sequence 10318, A
86	16.2	77.1	6564	3	US-09-966-880A-10	Sequence 10, Appl
87	16.2	77.1	6564	9	US-10-884-878-10	Sequence 10, Appl
88	16.2	77.1	9254	6	US-10-017-161-675	Sequence 675, App
89	16.2	77.1	11204	3	US-09-966-880A-35	Sequence 35, Appl
90	16.2	77.1	11204	3	US-10-884-878-35	Sequence 35, Appl
91	16.2	77.1	21852	8	US-10-741-600-17986	Sequence 17986, A
92	16.2	77.1	75395	6	US-10-274-194-3	Sequence 3, Appli
93	16.2	77.1	75395	7	US-10-760-407-3	Sequence 3, Appli
94	16.2	77.1	124884	3	US-09-913-514-1	Sequence 1, Appli
95	16.2	77.1	124884	6	US-10-288-823-76	Sequence 76, Appli
96	16.2	77.1	125157	3	US-09-913-514-2	Sequence 2, Appli

97	16.2	77.1	155350	7	US-10-322-281-691	Sequence 691, App	C 170	15.8	75.2	1923	4	US-09-925-065A-666927	Sequence 666927,
98	16	76.2	556	4	US-09-925-065A-928523	Sequence 928523,	C 171	15.8	75.2	1923	4	US-09-925-065A-666928	Sequence 666928,
99	16	76.2	556	4	US-09-925-065A-949794	Sequence 949794,	C 172	15.8	75.2	2010	3	US-09-903-190-151	Sequence 151, App
c 100	16	76.2	557	4	US-09-925-065A-928703	Sequence 928703,	C 173	15.8	75.2	2010	3	US-09-978-360A-402	Sequence 402, App
c 101	16	76.2	557	4	US-09-925-065A-949890	Sequence 949890,	C 174	15.8	75.2	2010	3	US-10-930-331-151	Sequence 151, App
c 102	16	76.2	615	4	US-09-925-065A-949890	Sequence 949890,	C 175	15.8	75.2	2033	3	US-09-284-320-56	Sequence 56, Appl
c 103	16	76.2	682	5	US-10-027-632-289221	Sequence 289221,	C 176	15.8	75.2	2044	9	US-10-887-553A-709	Sequence 709, App
c 104	16	76.2	682	5	US-10-027-632-289222	Sequence 289222,	C 177	15.8	75.2	2044	9	US-10-956-157-1477	Sequence 1477, App
c 105	16	76.2	6440	8	US-10-719-993-266	Sequence 266, App	C 178	15.8	75.2	2049	5	US-10-102-524-1744	Sequence 1744, Ap
c 106	16	76.2	6594	9	US-10-887-553A-116	Sequence 116, App	C 179	15.8	75.2	2099	3	US-09-800-729-56	Sequence 56, Appl
c 107	16	76.2	6599	8	US-10-719-993-267	Sequence 267, App	C 180	15.8	75.2	2108	3	US-09-800-729-20	Sequence 20, Appl
c 108	16	76.2	14526	8	US-10-719-993-6954	Sequence 6954, App	C 181	15.8	75.2	2113	7	US-10-264-237-125	Sequence 125, App
c 109	16	76.2	29921	8	US-10-719-993-6848	Sequence 6848, Ap	C 182	15.8	75.2	2213	6	US-10-424-599-140416	Sequence 140416,
c 110	15.8	75.2	445	8	US-10-425-115-18155	Sequence 18155, A	C 183	15.8	75.2	2297	8	US-10-723-860-6601	Sequence 6601, Ap
c 111	15.8	75.2	446	3	US-09-918-995-34416	Sequence 34416, A	C 184	15.8	75.2	2736	6	US-10-359-493-36263	Sequence 36263, A
c 112	15.8	75.2	470	4	US-09-925-065A-223995	Sequence 223995,	C 185	15.8	75.2	2747	3	US-09-778-327A-24	Sequence 24, Appl
c 113	15.8	75.2	470	4	US-09-925-065A-223996	Sequence 223996,	C 186	15.8	75.2	3174	5	US-10-027-632-116120	Sequence 116120,
c 114	15.8	75.2	470	4	US-09-925-065A-223997	Sequence 223997,	C 187	15.8	75.2	3174	5	US-10-027-632-116121	Sequence 116121,
c 115	15.8	75.2	471	7	US-10-424-599-81687	Sequence 81687, A	C 188	15.8	75.2	3174	6	US-10-027-632-116120	Sequence 116120,
c 116	15.8	75.2	498	7	US-10-424-599-56253	Sequence 56253, A	C 189	15.8	75.2	3174	6	US-10-027-632-116121	Sequence 116121,
c 117	15.8	75.2	516	5	US-10-060-036-661	Sequence 661, App	C 190	15.8	75.2	4101	8	US-10-723-860-8085	Sequence 8085, Ap
c 118	15.8	75.2	543	4	US-09-925-065A-561128	Sequence 561128, A	C 191	15.8	75.2	9112	10	US-11-097-143-29767	Sequence 29767, A
c 119	15.8	75.2	554	4	US-09-925-065A-463777	Sequence 463777,	C 192	15.8	75.2	12174	8	US-10-607-806-1	Sequence 1, Appli
c 120	15.8	75.2	554	4	US-09-925-065A-463778	Sequence 463778,	C 193	15.8	75.2	25860	5	US-10-087-192-1696	Sequence 1696, Ap
c 121	15.8	75.2	554	4	US-09-925-065A-463779	Sequence 463779,	C 194	15.8	75.2	36159	3	US-09-749-588-3	Sequence 3, Appli
c 122	15.8	75.2	554	4	US-09-925-065A-463780	Sequence 463780,	C 195	15.8	75.2	36159	5	US-10-135-587-3	Sequence 3, Appli
c 123	15.8	75.2	585	5	US-10-027-632-218362	Sequence 218362,	C 196	15.8	75.2	36159	8	US-10-635-535-3	Sequence 3, Appli
c 124	15.8	75.2	585	6	US-10-027-632-218362	Sequence 218362,	C 197	15.8	75.2	46156	8	US-10-741-600-17887	Sequence 17887, A
c 125	15.8	75.2	586	4	US-09-925-065A-711070	Sequence 711070,	C 198	15.8	75.2	53591	5	US-10-087-192-1684	Sequence 1684, Ap
c 126	15.8	75.2	600	9	US-10-972-079-23788	Sequence 23788, A	C 199	15.8	75.2	64135	7	US-10-322-281-489	Sequence 489, App
c 127	15.8	75.2	600	9	US-10-972-079-23789	Sequence 23789, A	C 200	15.8	75.2	402850	3	US-09-844-653-5	Sequence 5, Appli
c 128	15.8	75.2	600	9	US-10-972-079-23790	Sequence 23790, A	C 201	15.8	75.2	567564	8	US-10-699-156-3	Sequence 3, Appli
c 129	15.8	75.2	605	4	US-09-925-065A-250693	Sequence 250693,	C 202	15.8	75.2	1601042	5	US-10-027-632-59064	Sequence 59064, A
c 130	15.8	75.2	616	4	US-09-925-065A-197978	Sequence 197978,	C 203	15.8	75.2	1601042	6	US-10-027-632-59062	Sequence 59062, A
c 131	15.8	75.2	616	4	US-09-925-065A-250860	Sequence 250860,	C 204	15.6	74.3	1210	4	US-09-925-065A-295562	Sequence 295562,
c 132	15.8	75.2	626	4	US-09-925-065A-318720	Sequence 318720,	C 205	15.4	73.3	25	8	US-10-719-900-170372	Sequence 170372,
c 133	15.8	75.2	629	4	US-09-925-065A-140372	Sequence 140372,	C 206	15.4	73.3	25	8	US-10-719-900-443953	Sequence 443953,
c 134	15.8	75.2	632	4	US-09-925-065A-118894	Sequence 118894,	C 207	15.4	73.3	25	8	US-10-719-900-520661	Sequence 520661,
c 135	15.8	75.2	639	4	US-09-925-065A-732568	Sequence 732568,	C 208	15.4	73.3	25	10	US-11-036-317-433553	Sequence 433553,
c 136	15.8	75.2	641	7	US-10-424-599-122531	Sequence 122531,	C 209	15.4	73.3	274	7	US-10-424-599-123815	Sequence 123815,
c 137	15.8	75.2	659	4	US-09-925-065A-96339	Sequence 96339, A	C 210	15.4	73.3	345	9	US-10-911-704-413	Sequence 413, App
c 138	15.8	75.2	684	5	US-10-027-632-232453	Sequence 232453,	C 211	15.4	73.3	412	8	US-10-425-115-129764	Sequence 129764,
c 139	15.8	75.2	684	6	US-10-027-632-232453	Sequence 232453,	C 212	15.4	73.3	455	8	US-10-425-115-100640	Sequence 100640,
c 140	15.8	75.2	716	5	US-10-027-632-148558	Sequence 148558,	C 213	15.4	73.3	482	4	US-09-925-065A-68763	Sequence 68763, A
c 141	15.8	75.2	716	6	US-10-027-632-148558	Sequence 148558,	C 214	15.4	73.3	485	9	US-10-779-543-9753	Sequence 9753, Ap
c 142	15.8	75.2	756	4	US-09-925-065A-70649	Sequence 70649, A	C 215	15.4	73.3	498	7	US-10-242-335A-29494	Sequence 29494, A
c 143	15.8	75.2	793	5	US-10-076-555-514	Sequence 514, App	C 216	15.4	73.3	498	7	US-10-085-783A-29494	Sequence 739364,
c 144	15.8	75.2	793	9	US-10-779-543-514	Sequence 514, App	C 217	15.4	73.3	507	4	US-09-925-065A-739364	Sequence 739364,
c 145	15.8	75.2	793	9	US-10-779-543-5630	Sequence 5630, App	C 218	15.4	73.3	507	4	US-09-925-065A-739365	Sequence 739365,
c 146	15.8	75.2	813	9	US-10-779-543-4063	Sequence 4063, Ap	C 219	15.4	73.3	538	4	US-09-925-065A-288189	Sequence 288189,
c 147	15.8	75.2	813	9	US-10-779-543-4072	Sequence 4072, Ap	C 220	15.4	73.3	569	4	US-09-925-065A-461253	Sequence 461253,
c 148	15.8	75.2	900	8	US-10-357-930-21347	Sequence 21347, Ap	C 221	15.4	73.3	574	4	US-09-925-065A-114709	Sequence 114709,
c 149	15.8	75.2	900	8	US-10-357-930-21347	Sequence 21347, Ap	C 222	15.4	73.3	600	9	US-10-972-079-207	Sequence 207, App
c 150	15.8	75.2	905	8	US-10-723-860-5673	Sequence 5673, A	C 223	15.4	73.3	623	4	US-09-925-065A-639697	Sequence 639697,
c 151	15.8	75.2	917	7	US-10-767-701-11739	Sequence 11739, Ap	C 224	15.4	73.3	643	4	US-09-925-065A-590937	Sequence 590937,
c 152	15.8	75.2	975	5	US-10-027-632-323808	Sequence 323808,	C 225	15.4	73.3	645	4	US-09-925-065A-790837	Sequence 790837,
c 153	15.8	75.2	975	6	US-10-027-632-323808	Sequence 323808,	C 226	15.4	73.3	656	4	US-09-925-065A-421462	Sequence 421462,
c 154	15.8	75.2	1109	4	US-09-925-065A-292995	Sequence 292995,	C 227	15.4	73.3	717	9	US-10-487-501-2145	Sequence 2145, Ap
c 155	15.8	75.2	1121	3	US-09-902-773A-1	Sequence 1, Appli	C 228	15.4	73.3	726	7	US-10-424-599-27718	Sequence 27718, A
c 156	15.8	75.2	1121	3	US-10-935-226-1	Sequence 1, Appli	C 229	15.4	73.3	815	7	US-10-424-599-40259	Sequence 40259, A
c 157	15.8	75.2	1318	7	US-10-437-963-95245	Sequence 95245, A	C 230	15.4	73.3	884	3	US-09-764-864-430	Sequence 430, App
c 158	15.8	75.2	1400	9	US-10-956-157-6712	Sequence 6712, Ap	C 231	15.4	73.3	1020	4	US-09-925-065A-682368	Sequence 682368,
c 159	15.8	75.2	1404	9	US-10-450-763-27759	Sequence 27759, A	C 232	15.4	73.3	1020	4	US-09-925-065A-682369	Sequence 682369,
c 160	15.8	75.2	1407	7	US-10-424-599-111889	Sequence 111889,	C 233	15.4	73.3	1020	4	US-09-925-065A-682370	Sequence 682370,
c 161	15.8	75.2	1422	6	US-09-251-263-1	Sequence 1, Appli	C 234	15.4	73.3	1403	7	US-10-437-963-44596	Sequence 44596, A
c 162	15.8	75.2	1422	6	US-10-347-177-1	Sequence 1, Appli	C 235	15.4	73.3	1909	7	US-10-425-114-6915	Sequence 6915, Ap
c 163	15.8	75.2	1422	7	US-10-690-019-18	Sequence 18, Appl	C 236	15.4	73.3	2001	7	US-10-424-599-102342	Sequence 102342,
c 164	15.8	75.2	1479	7	US-10-282-122A-16727	Sequence 16727, Ap	C 237	15.4	73.3	2024	4	US-09-925-065A-675942	Sequence 675942,
c 165	15.8	75.2	1482	8	US-10-739-930-2676	Sequence 2676, Ap	C 238	15.4	73.3	2100	3	US-09-764-872-842	Sequence 842, App
c 166	15.8	75.2	1631	5	US-10-103-313-169	Sequence 169, App	C 239	15.4	73.3	2100	3	US-09-764-872-843	Sequence 843, App
c 167	15.8	75.2	1669	4	US-09-925-065A-34094	Sequence 34094, A	C 240	15.4	73.3	2247	8	US-10-425-115-37821	Sequence 37821, A
c 168	15.8	75.2	1669	4	US-09-925-065A-34095	Sequence 34095, A	C 241	15.4	73.3	3152	7	US-10-437-963-65080	Sequence 65080, A
c 169	15.8	75.2	1923	4	US-09-925-065A-666926	Sequence 666926,	C 242	15.4	73.3	3153	9	US-10-450-763-4165	Sequence 4165, Ap

243	15.4	73.3	3153	9	US-10-450-763-25059	Sequence 25059, A	316	15.2	72.4	611	6	US-10-027-632-213556	Sequence 213556,
c 244	15.4	73.3	4350	9	US-10-450-763-15720	Sequence 15720, A	317	15.2	72.4	622	4	US-09-925-065A-728480	Sequence 728480,
c 245	15.4	73.3	159095	6	US-10-017-128-3	Sequence 3, Appli	318	15.2	72.4	629	4	US-09-925-065A-792608	Sequence 792608,
246	15.4	73.3	177249	6	US-10-085-117-223	Sequence 23, App	c 319	15.2	72.4	627	5	US-10-027-632-70758	Sequence 70758, A
c 247	15.4	73.3	191395	7	US-10-235-152A-45	Sequence 45, Appl	c 320	15.2	72.4	627	6	US-10-027-632-70758	Sequence 70758, A
c 248	15.4	73.3	217409	5	US-10-087-132-1954	Sequence 1954, Ap	c 321	15.2	72.4	628	5	US-10-027-632-69479	Sequence 69479, A
249	15.4	73.3	344805	8	US-10-779-271-1	Sequence 1, Appli	c 322	15.2	72.4	628	5	US-10-027-632-69480	Sequence 69480, A
250	15.4	73.3	354592	9	US-10-737-082-70	Sequence 70, Appl	c 323	15.2	72.4	628	5	US-10-027-632-70770	Sequence 70770, A
c 251	15.4	73.3	354592	9	US-10-765-790-70	Sequence 70, Appl	c 324	15.2	72.4	628	6	US-10-027-632-69479	Sequence 69479, A
c 252	15.4	73.3	401433	9	US-10-737-082-79	Sequence 79, Appl	c 325	15.2	72.4	628	6	US-10-027-632-69480	Sequence 69480, A
c 253	15.4	73.3	401433	9	US-10-765-790-79	Sequence 79, Appl	c 326	15.2	72.4	628	6	US-10-027-632-70770	Sequence 70770, A
c 254	15.2	72.4	25	10	US-11-036-317-890314	Sequence 890314,	c 327	15.2	72.4	629	7	US-10-021-323-5486	Sequence 5486, Ap
c 255	15.2	72.4	25	10	US-11-036-317-890318	Sequence 90318,	c 328	15.2	72.4	629	7	US-09-925-065A-765619	Sequence 765619,
256	15.2	72.4	174	7	US-10-424-599-55540	Sequence 55540, A	c 329	15.2	72.4	631	4	US-09-925-065A-765620	Sequence 765620,
257	15.2	72.4	201	8	US-10-741-600-62936	Sequence 62936, A	c 330	15.2	72.4	633	4	US-09-925-065A-811219	Sequence 811219,
c 258	15.2	72.4	220	9	US-10-617-316-7	Sequence 7, Appli	c 331	15.2	72.4	642	7	US-10-424-599-120369	Sequence 120369,
259	15.2	72.4	244	7	US-10-424-599-20431	Sequence 20431, A	c 332	15.2	72.4	662	5	US-10-027-632-225615	Sequence 225615,
260	15.2	72.4	297	7	US-10-424-599-31558	Sequence 31558, A	c 333	15.2	72.4	662	5	US-10-027-632-225615	Sequence 225615,
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262	15.2	72.4	401	3	US-09-795-686-412	Sequence 412, App	c 335	15.2	72.4	673	4	US-09-925-065A-79767	Sequence 79767, A
263	15.2	72.4	401	3	US-09-795-686-412	Sequence 412, App	c 336	15.2	72.4	696	3	US-09-925-065A-79767	Sequence 282, App
264	15.2	72.4	401	3	US-09-946-807-412	Sequence 412, App	c 337	15.2	72.4	704	7	US-10-437-963-51580	Sequence 51580, A
265	15.2	72.4	401	9	US-10-995-011-412	Sequence 412, App	c 338	15.2	72.4	706	7	US-10-424-599-57121	Sequence 57121, A
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c 267	15.2	72.4	464	7	US-10-437-963-71832	Sequence 71832, A	c 340	15.2	72.4	714	3	US-09-910-664-66	Sequence 66, Appl
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270	15.2	72.4	469	6	US-10-027-632-278023	Sequence 278023,	c 343	15.2	72.4	744	6	US-10-369-493-34986	Sequence 34986, A
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c 275	15.2	72.4	479	5	US-10-027-632-35617	Sequence 35617, A	c 348	15.2	72.4	843	7	US-10-335-977-9613	Sequence 9613, Ap
c 276	15.2	72.4	479	5	US-10-198-846-7901	Sequence 7901, Ap	c 349	15.2	72.4	843	7	US-10-335-977-9613	Sequence 4075, Ap
c 277	15.2	72.4	479	6	US-10-027-632-35616	Sequence 35616, A	c 350	15.2	72.4	852	5	US-10-198-846-11421	Sequence 11421, A
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286	15.2	72.4	524	4	US-09-925-065A-475325	Sequence 475325,	c 359	15.2	72.4	942	7	US-09-876-143-1721	Sequence 1721, Ap
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288	15.2	72.4	525	5	US-10-027-632-66746	Sequence 66746, A	c 361	15.2	72.4	985	4	US-09-925-065A-73780	Sequence 73780, A
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c 306	15.2	72.4	597	4	US-09-925-065A-337873	Sequence 337873,	c 379	15.2	72.4	1918	4	US-09-925-065A-42200	Sequence 42200, A
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#### SUMMARIES

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C 1	19.4	92.4	2279	7 US-10-509-121-37	Sequence 37, Appl
C 2	19.4	92.4	2294	7 US-10-509-121-5	Sequence 5, Appl
C 3	19.4	92.4	2294	7 US-10-509-121-5	Sequence 7, Appl
C 4	19.4	92.4	2300	7 US-10-509-121-3	Sequence 3, Appl
C 5	19.4	92.4	2301	7 US-10-509-121-1	Sequence 1, Appl
C 6	19.4	92.4	2301	7 US-10-509-121-38	Sequence 38, Appl
C 7	17.8	84.8	148220	11 US-11-121-086-90	Sequence 90, Appl
C 8	17.4	82.9	25	11 US-11-121-086-90	Sequence 601284, A
C 9	16.4	78.1	87672	7 US-10-995-561-26906	Sequence 26906, A
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C 11	16.4	78.1	143947	11 US-11-193-561-37	Sequence 37, Appl
C 12	16.4	78.1	143947	11 US-11-193-771-37	Sequence 37, Appl
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C 27	15.4	73.3	1080000	7	US-10-928-446A-181	Sequence 181, App
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C 49	15.2	72.4	3082	7	US-10-750-185-57044	Sequence 57044, A
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C 51	15.2	72.4	5360	7	US-10-750-169-70	Sequence 70, Appl
C 52	15.2	72.4	28724	7	US-10-995-561-13372	Sequence 13372, A
C 53	15.2	72.4	28095	7	US-10-775-169-88	Sequence 88, Appl
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C 55	15.2	72.4	1691140	11	US-11-091-018-1	Sequence 1, Appl
C 56	15	71.4	21	7	US-10-310-914A-49354	Sequence 49354, A
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C 59	15	71.4	1589	7	US-10-750-185-37660	Sequence 37660, A
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C 68	14.8	70.5	1435	7	US-10-750-185-27454	Sequence 27454, A
C 69	14.8	70.5	1435	7	US-10-750-623-27454	Sequence 27454, A
C 70	14.8	70.5	2406	7	US-10-750-185-53411	Sequence 53411, A
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C 72	14.8	70.5	2515	7	US-10-750-185-52777	Sequence 52777, A
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C 74	14.8	70.5	2586	7	US-10-750-185-64445	Sequence 64445, A
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C 76	14.8	70.5	6941	7	US-10-775-169-272	Sequence 272, App
C 77	14.8	70.5	27733	7	US-10-829-826B-18	Sequence 18, Appl
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C 82	14.8	70.5	162013	11	US-11-150-888-30	Sequence 30, Appl
C 83	14.8	70.5	186442	11	US-11-121-086-104	Sequence 104, App
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95	14.6	69.5	894	11	US-11-098-686-8743	Sequence 8743, Ap	c 168	14.2	67.6	25	11	US-11-121-849-627125	Sequence 627125,
c 96	14.6	69.5	1138	7	US-10-972-587-29	Sequence 29, Appl	c 169	14.2	67.6	25	11	US-11-136-527-312588	Sequence 312588,
97	14.6	69.5	1394	7	US-10-750-185-43021	Sequence 43021, A	c 170	14.2	67.6	30	11	US-11-061-140-137	Sequence 137, App
98	14.6	69.5	1394	7	US-10-750-623-43021	Sequence 43021, A	c 171	14.2	67.6	30	11	US-11-061-140-137	Sequence 133, App
99	14.6	69.5	1543	7	US-10-750-623-46986	Sequence 46986, A	c 172	14.2	67.6	201	7	US-10-995-561-13531	Sequence 13531, A
c 100	14.6	69.5	1543	7	US-10-750-623-46986	Sequence 46986, A	c 173	14.2	67.6	201	7	US-10-995-561-15525	Sequence 15525, A
c 101	14.6	69.5	1550	7	US-10-750-185-36584	Sequence 36584, A	c 174	14.2	67.6	201	7	US-10-995-561-55235	Sequence 55235, A
c 102	14.6	69.5	1550	7	US-10-750-623-36584	Sequence 36584, A	c 175	14.2	67.6	201	7	US-10-995-561-56856	Sequence 56856, A
c 103	14.6	69.5	1610	7	US-10-750-185-54053	Sequence 54053, A	c 176	14.2	67.6	201	7	US-10-995-561-56859	Sequence 56859, A
c 104	14.6	69.5	1610	7	US-10-750-623-54053	Sequence 54053, A	c 177	14.2	67.6	201	11	US-11-124-3678A-10991	Sequence 10991, A
c 105	14.6	69.5	1619	7	US-10-750-185-63154	Sequence 63154, A	c 178	14.2	67.6	201	11	US-11-124-3678A-17518	Sequence 17518, A
c 106	14.6	69.5	1619	7	US-10-750-185-63154	Sequence 63154, A	c 179	14.2	67.6	201	11	US-11-124-3678A-19730	Sequence 19730, A
c 107	14.6	69.5	1681	7	US-10-750-623-63164	Sequence 63164, A	c 180	14.2	67.6	201	11	US-11-124-3678A-22279	Sequence 22279, A
c 108	14.6	69.5	1681	7	US-10-750-185-51644	Sequence 51644, A	c 181	14.2	67.6	201	11	US-11-124-3678A-25228	Sequence 25228, A
c 109	14.6	69.5	1695	10	US-11-022-162-41	Sequence 41, Appl	c 182	14.2	67.6	201	11	US-11-124-3678A-27261	Sequence 27261, A
c 110	14.6	69.5	1843	7	US-10-750-185-33240	Sequence 33240, A	c 183	14.2	67.6	404	7	US-10-667-295-5	Sequence 5, Appl
c 111	14.6	69.5	1843	7	US-10-750-623-33240	Sequence 33240, A	c 184	14.2	67.6	600	11	US-11-136-527-4775	Sequence 4775, Ap
c 112	14.6	69.5	2073	7	US-10-750-185-52306	Sequence 52306, A	c 185	14.2	67.6	612	11	US-11-052-554A-469	Sequence 469, App
c 113	14.6	69.5	2073	7	US-10-750-623-52306	Sequence 52306, A	c 186	14.2	67.6	659	7	US-10-750-185-60564	Sequence 60564, A
c 114	14.6	69.5	2333	7	US-10-750-185-25814	Sequence 25814, A	c 187	14.2	67.6	659	7	US-10-750-623-60564	Sequence 60564, A
c 115	14.6	69.5	2333	7	US-10-750-623-25814	Sequence 25814, A	c 188	14.2	67.6	762	7	US-10-750-185-30903	Sequence 30903, A
c 116	14.6	69.5	3098	8	US-11-228-923-128	Sequence 128, App	c 189	14.2	67.6	762	7	US-10-750-623-30903	Sequence 30903, A
c 117	14.6	69.5	3098	11	US-11-229-371-128	Sequence 128, App	c 190	14.2	67.6	793	7	US-10-750-185-55714	Sequence 55714, A
c 118	14.6	69.5	4339	7	US-10-908-125-801	Sequence 801, App	c 191	14.2	67.6	826	7	US-10-750-623-55714	Sequence 55714, A
c 119	14.6	69.5	8372	11	US-11-136-527-684	Sequence 684, App	c 192	14.2	67.6	826	7	US-10-750-185-42318	Sequence 42318, A
c 120	14.6	69.5	35962	7	US-10-775-189-234	Sequence 234, App	c 193	14.2	67.6	826	7	US-10-750-623-42318	Sequence 42318, A
c 121	14.6	69.5	96988	11	US-11-117-187-196	Sequence 196, App	c 194	14.2	67.6	973	11	US-11-043-752-170	Sequence 170, App
c 122	14.6	69.5	98345	11	US-11-112-908-36	Sequence 36, Appl	c 195	14.2	67.6	1182	7	US-10-750-185-48304	Sequence 48304, A
c 123	14.6	69.5	150173	11	US-11-112-908-26	Sequence 26, Appl	c 196	14.2	67.6	1182	7	US-10-750-623-48304	Sequence 48304, A
c 124	14.6	69.5	171247	11	US-11-112-908-27	Sequence 27, Appl	c 197	14.2	67.6	1222	7	US-10-750-185-36821	Sequence 36821, A
c 125	14.6	69.5	172781	11	US-11-112-908-25	Sequence 25, Appl	c 198	14.2	67.6	1222	7	US-10-750-623-36821	Sequence 36821, A
c 126	14.6	69.5	190276	7	US-10-661-966-1	Sequence 1, Appl	c 199	14.2	67.6	1233	7	US-10-750-185-51369	Sequence 51369, A
c 127	14.6	69.5	380749	7	US-10-995-561-13216	Sequence 13216, A	c 200	14.2	67.6	1233	7	US-10-750-623-51369	Sequence 51369, A
c 128	14.6	69.5	1080000	7	US-10-928-446A-1	Sequence 1, Appl	c 201	14.2	67.6	1276	7	US-10-750-185-39844	Sequence 39844, A
c 129	14.6	69.5	1080000	7	US-10-928-446A-181	Sequence 181, App	c 202	14.2	67.6	1276	7	US-10-750-623-39844	Sequence 39844, A
c 130	14.6	69.5	1080000	7	US-10-928-446A-183	Sequence 183, App	c 203	14.2	67.6	1322	6	US-10-714-887-369	Sequence 369, App
c 131	14.6	69.5	1080000	7	US-10-928-446A-185	Sequence 185, App	c 204	14.2	67.6	1322	7	US-10-750-185-50316	Sequence 50316, A
c 132	14.6	69.5	1080000	7	US-10-928-446A-187	Sequence 187, App	c 205	14.2	67.6	1332	7	US-10-750-623-50316	Sequence 50316, A
c 133	14.6	69.5	1080000	7	US-10-928-446A-189	Sequence 189, App	c 206	14.2	67.6	1332	7	US-10-750-185-37031	Sequence 37031, A
c 134	14.6	69.5	1080000	7	US-10-928-446A-191	Sequence 191, App	c 207	14.2	67.6	1351	7	US-10-750-623-37031	Sequence 37031, A
c 135	14.6	69.5	1080000	7	US-10-928-446A-193	Sequence 193, App	c 208	14.2	67.6	1400	11	US-11-136-527-6624	Sequence 6624, Ap
c 136	14.6	69.5	1080000	7	US-10-928-446A-195	Sequence 195, App	c 209	14.2	67.6	1407	7	US-10-750-185-26446	Sequence 26446, A
c 137	14.6	69.5	1080000	7	US-10-928-446A-197	Sequence 197, App	c 210	14.2	67.6	1407	7	US-10-750-623-26446	Sequence 26446, A
c 138	14.6	69.5	1080000	7	US-10-928-446A-199	Sequence 199, App	c 211	14.2	67.6	1459	7	US-10-750-185-51559	Sequence 51559, A
c 139	14.6	69.5	1080000	7	US-10-928-446A-201	Sequence 201, App	c 212	14.2	67.6	1459	7	US-10-750-623-51559	Sequence 51559, A
c 140	14.6	69.5	1457619	11	US-11-098-686-8739	Sequence 8739, Ap	c 213	14.2	67.6	1502	7	US-10-750-185-58931	Sequence 58931, A
c 141	14.6	69.5	1457619	11	US-11-098-686-8739	Sequence 8739, Ap	c 214	14.2	67.6	1502	7	US-10-750-623-58931	Sequence 58931, A
c 142	14.4	68.6	21	7	US-10-310-914A-1009463	Sequence 1009463,	c 215	14.2	67.6	1526	7	US-10-750-185-27146	Sequence 27146, A
c 143	14.4	68.6	25	7	US-10-310-914A-1009472	Sequence 1009472,	c 216	14.2	67.6	1526	7	US-10-750-623-27146	Sequence 27146, A
c 144	14.4	68.6	50	11	US-11-175-859-79347	Sequence 79347, A	c 217	14.2	67.6	1529	7	US-10-750-185-63623	Sequence 63623, A
c 145	14.4	68.6	50	11	US-11-175-859-11431	Sequence 11431, A	c 218	14.2	67.6	1529	7	US-10-750-623-63623	Sequence 63623, A
c 146	14.4	68.6	201	11	US-11-124-367A-19432	Sequence 19432, A	c 219	14.2	67.6	1548	11	US-11-136-527-679	Sequence 679, App
c 147	14.4	68.6	201	11	US-11-124-367A-34137	Sequence 34137, A	c 220	14.2	67.6	1580	7	US-10-750-185-30740	Sequence 30740, A
c 148	14.4	68.6	201	11	US-10-750-185-53750	Sequence 53750, A	c 221	14.2	67.6	1580	7	US-10-750-623-30740	Sequence 30740, A
c 149	14.4	68.6	993	7	US-10-750-623-53750	Sequence 53750, A	c 222	14.2	67.6	1608	7	US-10-750-185-36944	Sequence 36944, A
c 150	14.4	68.6	1120	7	US-10-750-185-43200	Sequence 43200, A	c 223	14.2	67.6	1608	7	US-10-750-623-36944	Sequence 36944, A
c 151	14.4	68.6	1120	7	US-10-750-623-43200	Sequence 43200, A	c 224	14.2	67.6	1611	7	US-10-750-185-59782	Sequence 59782, A
c 152	14.4	68.6	1734	7	US-10-750-185-50034	Sequence 50034, A	c 225	14.2	67.6	1611	7	US-10-750-623-59782	Sequence 59782, A
c 153	14.4	68.6	1734	7	US-10-750-623-50034	Sequence 50034, A	c 226	14.2	67.6	1663	11	US-11-043-752-1709	Sequence 1709, Ap
c 154	14.4	68.6	1777	7	US-10-750-185-56776	Sequence 56776, A	c 227	14.2	67.6	1668	7	US-10-750-185-49268	Sequence 49268, A
c 155	14.4	68.6	1777	7	US-10-750-623-56776	Sequence 56776, A	c 228	14.2	67.6	1668	7	US-10-750-623-49268	Sequence 49268, A
c 156	14.4	68.6	1851	11	US-11-091-883-428	Sequence 428, App	c 229	14.2	67.6	1683	11	US-11-136-527-2758	Sequence 2758, Ap
c 157	14.4	68.6	2865	7	US-10-467-962B-30	Sequence 30, Appl	c 230	14.2	67.6	1716	7	US-10-750-185-58310	Sequence 58310, A
c 158	14.4	68.6	3940	7	US-10-750-185-34788	Sequence 34788, A	c 231	14.2	67.6	1716	7	US-10-750-623-58310	Sequence 58310, A
c 159	14.4	68.6	3940	7	US-10-750-623-34788	Sequence 34788, A	c 232	14.2	67.6	1738	7	US-10-750-185-39925	Sequence 39925, A
c 160	14.4	68.6	6490	11	US-11-136-527-2002	Sequence 2002, Ap	c 233	14.2	67.6	1738	7	US-10-750-623-39925	Sequence 39925, A
c 161	14.4	68.6	117431	7	US-10-995-561-13448	Sequence 13448, A	c 234	14.2	67.6	1962	7	US-10-750-185-54021	Sequence 54021, A
c 162	14.4	68.6	398287	7	US-10-995-561-13396	Sequence 13396, A	c 235	14.2	67.6	1962	7	US-10-750-623-54021	Sequence 54021, A
c 163	14.2	67.6	21	7	US-10-310-914A-763551	Sequence 763551,	c 236	14.2	67.6	1967	7	US-10-750-185-40057	Sequence 40057, A
c 164	14.2	67.6	25	11	US-11-121-849-332257	Sequence 332257,	c 237	14.2	67.6	1967	7	US-10-750-623-40057	Sequence 40057, A
c 165	14.2	67.6	25	11	US-11-121-849-332258	Sequence 332258,	c 238	14.2	67.6	1969	7	US-10-750-185-64839	Sequence 64839, A
c 166	14.2	67.6	25	11	US-11-121-849-506208	Sequence 506208,	c 239	14.2	67.6	1969	7	US-10-750-623-64839	Sequence 64839, A
c 167	14.2	67.6	25	11	US-11-121-849-620360	Sequence 620360,	c 240	14.2	67.6	1970	8	US-11-245-147-198	Sequence 198, App



241	14.2	67.6	1970	11	US-11-108-528-11	Sequence 11, Appl	c 314	13.8	65.7	50	11	US-11-175-859-17411	Sequence 17411, A
242	14.2	67.6	2014	8	US-11-245-147-199	Sequence 199, Appl	c 315	13.8	65.7	50	11	US-11-175-859-35799	Sequence 35799, A
243	14.2	67.6	2014	11	US-11-108-528-9	Sequence 9, Appl	c 316	13.8	65.7	50	11	US-11-175-859-76583	Sequence 76583, A
244	14.2	67.6	2071	7	US-10-750-185-44256	Sequence 44256, A	c 317	13.8	65.7	50	11	US-11-175-859-91447	Sequence 91447, A
245	14.2	67.6	2071	7	US-10-750-623-44256	Sequence 44256, A	c 318	13.8	65.7	62	7	US-10-310-314A-4705	Sequence 4705, Ap
246	14.2	67.6	2113	7	US-10-750-185-52932	Sequence 52932, A	c 319	13.8	65.7	201	7	US-10-995-561-28094	Sequence 28094, A
247	14.2	67.6	2113	8	US-10-750-623-52932	Sequence 52932, A	c 320	13.8	65.7	201	7	US-10-995-561-28095	Sequence 28095, A
248	14.2	67.6	2113	8	US-10-750-185-61216	Sequence 61216, A	c 321	13.8	65.7	201	7	US-10-995-561-28250	Sequence 28250, A
249	14.2	67.6	2228	7	US-10-750-623-61216	Sequence 61216, A	c 322	13.8	65.7	201	7	US-10-995-561-28252	Sequence 28252, A
250	14.2	67.6	2228	7	US-10-750-185-24736	Sequence 24736, A	c 323	13.8	65.7	201	7	US-10-995-561-60491	Sequence 60491, A
251	14.2	67.6	2363	7	US-10-750-623-24736	Sequence 24736, A	c 324	13.8	65.7	201	11	US-11-124-368A-18656	Sequence 18656, A
252	14.2	67.6	2363	8	US-11-245-147-161	Sequence 161, Appl	c 325	13.8	65.7	201	11	US-11-124-368A-20157	Sequence 20157, A
253	14.2	67.6	2385	7	US-10-750-185-46995	Sequence 46995, A	c 326	13.8	65.7	201	11	US-11-124-367A-8308	Sequence 8308, Ap
254	14.2	67.6	2488	7	US-10-750-623-46995	Sequence 46995, A	c 327	13.8	65.7	201	11	US-11-124-367A-18366	Sequence 18366, A
255	14.2	67.6	2488	7	US-10-750-185-46264	Sequence 46264, A	c 328	13.8	65.7	201	11	US-11-124-367A-20090	Sequence 20090, A
256	14.2	67.6	2621	7	US-10-750-623-46264	Sequence 46264, A	c 329	13.8	65.7	600	7	US-10-750-185-21392	Sequence 21392, A
257	14.2	67.6	2621	7	US-10-750-185-58200	Sequence 58200, A	c 330	13.8	65.7	600	7	US-10-750-623-21392	Sequence 21392, A
258	14.2	67.6	2825	7	US-10-750-185-58200	Sequence 58200, A	c 331	13.8	65.7	641	11	US-11-043-752-3874	Sequence 3874, Ap
259	14.2	67.6	2825	7	US-11-072-512-971	Sequence 971, Appl	c 332	13.8	65.7	801	11	US-11-043-752-3873	Sequence 3873, Ap
260	14.2	67.6	2922	8	US-10-750-185-40193	Sequence 40193, A	c 333	13.8	65.7	994	7	US-10-750-185-53349	Sequence 53349, A
261	14.2	67.6	3026	7	US-10-750-623-40193	Sequence 40193, A	c 334	13.8	65.7	994	7	US-10-750-623-53349	Sequence 53349, A
262	14.2	67.6	3026	7	US-10-750-185-40193	Sequence 40193, A	c 335	13.8	65.7	1007	7	US-10-750-185-38082	Sequence 38082, A
263	14.2	67.6	3087	11	US-11-136-527-1013	Sequence 1013, Ap	c 336	13.8	65.7	1007	7	US-10-750-623-38082	Sequence 38082, A
264	14.2	67.6	3237	7	US-10-750-185-32291	Sequence 32291, A	c 337	13.8	65.7	1020	7	US-10-678-790-48	Sequence 48, Appl
265	14.2	67.6	3237	7	US-10-750-623-32291	Sequence 32291, A	c 338	13.8	65.7	1040	7	US-10-678-790-47	Sequence 47, Appl
266	14.2	67.6	3407	7	US-10-750-185-44023	Sequence 44023, A	c 339	13.8	65.7	1040	7	US-10-750-185-50	Sequence 50, Appl
267	14.2	67.6	3407	7	US-10-750-623-44023	Sequence 44023, A	c 340	13.8	65.7	1049	7	US-10-750-185-34323	Sequence 34323, A
268	14.2	67.6	3576	11	US-11-108-528-13	Sequence 13, Appl	c 341	13.8	65.7	1049	7	US-10-750-623-34323	Sequence 34323, A
269	14.2	67.6	3796	7	US-10-516-768-5	Sequence 5, Appl	c 342	13.8	65.7	1050	7	US-10-678-790-51	Sequence 51, Appl
270	14.2	67.6	4403	7	US-10-750-185-38248	Sequence 38248, A	c 343	13.8	65.7	1058	7	US-10-678-790-49	Sequence 49, Appl
271	14.2	67.6	4403	7	US-10-750-623-38248	Sequence 38248, A	c 344	13.8	65.7	1183	7	US-10-750-185-64788	Sequence 64788, A
272	14.2	67.6	4893	7	US-10-750-185-42101	Sequence 42101, A	c 345	13.8	65.7	1183	7	US-10-750-623-64788	Sequence 64788, A
273	14.2	67.6	4893	7	US-10-750-623-42101	Sequence 42101, A	c 346	13.8	65.7	1189	7	US-10-750-185-37476	Sequence 37476, A
274	14.2	67.6	5331	11	US-11-136-527-2528	Sequence 2528, Ap	c 347	13.8	65.7	1189	7	US-10-750-623-37476	Sequence 37476, A
275	14.2	67.6	5448	11	US-11-124-367A-105	Sequence 105, Appl	c 348	13.8	65.7	1240	7	US-10-750-185-47696	Sequence 47696, A
276	14.2	67.6	5759	8	US-11-072-175-64	Sequence 64, Appl	c 349	13.8	65.7	1240	7	US-10-750-623-47696	Sequence 47696, A
277	14.2	67.6	6673	7	US-10-516-768-15	Sequence 15, Appl	c 350	13.8	65.7	1368	7	US-10-750-185-44824	Sequence 44824, A
278	14.2	67.6	19959	7	US-10-993-516-1	Sequence 1, Appl	c 351	13.8	65.7	1368	7	US-10-750-623-44824	Sequence 44824, A
279	14.2	67.6	46089	7	US-10-995-561-13325	Sequence 13325, A	c 352	13.8	65.7	1404	7	US-10-750-185-49151	Sequence 49151, A
280	14.2	67.6	54985	11	US-11-124-367A-5047	Sequence 5047, Ap	c 353	13.8	65.7	1404	7	US-10-750-623-49151	Sequence 49151, A
281	14.2	67.6	61487	11	US-11-124-367A-5047	Sequence 5047, Ap	c 354	13.8	65.7	1436	7	US-10-750-185-55286	Sequence 55286, A
282	14.2	67.6	62224	11	US-11-124-367A-5066	Sequence 5066, Ap	c 355	13.8	65.7	1436	7	US-10-750-623-55286	Sequence 55286, A
283	14.2	67.6	75007	7	US-10-995-561-13194	Sequence 13194, A	c 356	13.8	65.7	1468	7	US-10-750-185-51389	Sequence 51389, A
284	14.2	67.6	75007	7	US-10-995-561-13194	Sequence 13194, A	c 357	13.8	65.7	1468	7	US-10-750-623-51389	Sequence 51389, A
285	14.2	67.6	75564	11	US-11-124-367A-5055	Sequence 5055, Ap	c 358	13.8	65.7	1468	8	US-11-245-147-226	Sequence 226, App
286	14.2	67.6	90572	11	US-11-124-368A-2900	Sequence 2900, Ap	c 359	13.8	65.7	1480	7	US-10-750-185-34593	Sequence 34593, A
287	14.2	67.6	95604	11	US-11-124-367A-5097	Sequence 5097, Ap	c 360	13.8	65.7	1484	7	US-10-750-623-34593	Sequence 34593, A
288	14.2	67.6	100000	11	US-11-124-367A-5044	Sequence 5044, Ap	c 361	13.8	65.7	1494	7	US-10-750-185-30743	Sequence 30743, A
289	14.2	67.6	100000	11	US-11-124-367A-5058	Sequence 5058, Ap	c 362	13.8	65.7	1494	7	US-10-750-623-30743	Sequence 30743, A
290	14.2	67.6	101046	7	US-10-995-561-13330	Sequence 13330, A	c 363	13.8	65.7	1496	7	US-10-131-826A-287	Sequence 287, App
291	14.2	67.6	130733	11	US-11-121-086-19	Sequence 19, Appl	c 364	13.8	65.7	1531	7	US-10-750-185-31608	Sequence 31608, A
292	14.2	67.6	151870	7	US-10-995-561-13159	Sequence 13159, A	c 365	13.8	65.7	1531	7	US-10-750-623-31608	Sequence 31608, A
293	14.2	67.6	160170	11	US-11-121-086-32	Sequence 32, Appl	c 366	13.8	65.7	1571	7	US-10-750-185-36805	Sequence 36805, A
294	14.2	67.6	162289	11	US-11-121-086-20	Sequence 20, Appl	c 367	13.8	65.7	1571	7	US-10-750-623-36805	Sequence 36805, A
295	14.2	67.6	165627	11	US-11-121-086-89	Sequence 89, Appl	c 368	13.8	65.7	1643	7	US-10-750-185-62452	Sequence 62452, A
296	14.2	67.6	175100	11	US-11-121-086-21	Sequence 21, Appl	c 369	13.8	65.7	1643	7	US-10-750-623-62452	Sequence 62452, A
297	14.2	67.6	176503	11	US-11-121-086-53	Sequence 53, Appl	c 370	13.8	65.7	1695	7	US-10-750-185-45389	Sequence 45389, A
298	14.2	67.6	189539	11	US-11-121-086-16	Sequence 16, Appl	c 371	13.8	65.7	1695	7	US-10-750-623-45389	Sequence 45389, A
299	14.2	67.6	193383	11	US-11-112-908-32	Sequence 32, Appl	c 372	13.8	65.7	1718	7	US-10-750-185-57163	Sequence 57163, A
300	14.2	67.6	171876	7	US-10-995-561-13227	Sequence 13227, A	c 373	13.8	65.7	1721	7	US-10-750-623-57163	Sequence 57163, A
301	14.2	67.6	1082144	11	US-11-117-187-211	Sequence 211, App	c 374	13.8	65.7	1721	7	US-10-750-185-63780	Sequence 63780, A
302	14	66.7	201	7	US-10-995-561-34664	Sequence 34664, A	c 375	13.8	65.7	1721	6	US-10-750-623-63780	Sequence 63780, A
303	14	66.7	3994	11	US-11-136-527-210	Sequence 210, App	c 376	13.8	65.7	1779	7	US-10-524-972-99	Sequence 99, Appl
304	14	66.7	31309	11	US-11-124-367A-5054	Sequence 5054, Ap	c 377	13.8	65.7	1779	7	US-10-467-962B-94	Sequence 94, Appl
305	14	66.7	63693	7	US-10-995-561-13269	Sequence 13269, A	c 378	13.8	65.7	1779	7	US-10-524-647-111	Sequence 111, App
306	13.8	65.7	19	9	US-11-101-244-676296	Sequence 676296, A	c 379	13.8	65.7	1783	7	US-10-750-185-57582	Sequence 57582, A
307	13.8	65.7	19	9	US-11-101-244-676296	Sequence 676296, A	c 380	13.8	65.7	1783	7	US-10-750-623-57582	Sequence 57582, A
308	13.8	65.7	19	10	US-11-083-784-676296	Sequence 708262, A	c 381	13.8	65.7	1820	7	US-10-750-185-27001	Sequence 27001, A
309	13.8	65.7	19	10	US-11-083-784-708262	Sequence 708262, A	c 382	13.8	65.7	1820	7	US-10-750-623-27001	Sequence 27001, A
310	13.8	65.7	22	7	US-10-310-914A-885292	Sequence 885292, A	c 383	13.8	65.7	1917	7	US-10-750-185-57139	Sequence 57139, A
311	13.8	65.7	24	7	US-10-310-914A-25306	Sequence 25306, A	c 384	13.8	65.7	1917	7	US-10-750-623-57139	Sequence 57139, A
312	13.8	65.7	25	11	US-11-121-849-574208	Sequence 574208, A	c 385	13.8	65.7	2001	11	US-11-043-752-3324	Sequence 3324, Ap
313	13.8	65.7	25	11	US-11-121-849-627954	Sequence 627954, A	c 386	13.8	65.7	2001	11	US-11-043-752-3326	Sequence 3326, Ap





GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 860.024 Seconds  
(without alignments)  
1586.285 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24

Sequence: 1 gcacatccctacaaagaagaat 24

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5803141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

GenEmbl.\*

1: gb\_ba.\*

2: gb\_in.\*

3: gb\_env.\*

4: gb\_om.\*

5: gb\_ov.\*

6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pr.\*

9: gb\_ro.\*

10: gb\_ats.\*

11: gb\_sy.\*

12: gb\_un.\*

13: gb\_vi.\*

14: gb\_htg.\*

15: gb\_pl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20.8	86.7	570	10	BY004378 S208P6368
2	20.8	86.7	199130	9	AL805919 Mouse DNA
3	20.4	85.0	807	10	BV321556 S236P6259
4	19.8	82.5	125047	14	AC146988 Lytechinu
5	19.8	82.5	141914	9	AC161234 Mus muscu
6	19.8	82.5	160302	8	AC010685 Homo sapi
7	19.8	82.5	180166	14	AC011898 Homo sapi
8	19.8	82.5	234124	14	AC098949 Rattus no
9	19.8	82.5	235405	9	AC101737 Mus muscu
10	19.4	80.8	229905	14	AC135819 Rattus no
11	19.2	80.0	62899	14	AC100341 Mus muscu
12	19.2	80.0	114631	8	AC006010 Homo sapi
13	19.2	80.0	135432	14	AL645989 Mus muscu
14	19.2	80.0	149059	8	AC027779 Homo sapi
15	19.2	80.0	162888	14	AC134796 Mus muscu
16	19.2	80.0	181755	14	AC026996 Homo sapi
17	19.2	80.0	199536	9	AL683801 Mouse DNA
18	19.2	80.0	207629	9	AL645637 Mouse DNA

19	19.2	80.0	213801	9	AC135608
20	19.2	80.0	214157	8	AC147312
c 21	19.2	80.0	217981	14	AC147088
22	19.2	80.0	224566	9	AC160402
23	19.2	80.0	246911	14	AC097084
c 24	19	79.2	140494	9	BX276179
25	19	79.2	163435	9	CR932808
c 26	18.8	78.3	457	10	HUMUT955
27	18.8	78.3	76581	8	AL355304
28	18.8	78.3	145314	15	AC146852
29	18.8	78.3	165138	4	AC150858
c 30	18.8	78.3	172016	9	AC154026
c 31	18.8	78.3	173511	9	AC109618
c 32	18.8	78.3	183415	14	AC150288
33	18.8	78.3	204153	8	AC074091
34	18.8	78.3	212677	9	AC125463
35	18.8	78.3	232058	14	AC094131
c 36	18.4	76.7	804	5	CR353308
37	18.4	76.7	1950	15	BT010150
38	18.4	76.7	88401	15	F23M19
39	18.4	76.7	128808	14	AC162762
40	18.4	76.7	131863	5	BX640402
41	18.4	76.7	150718	14	AC152869
c 42	18.4	76.7	212337	8	AC079235
43	18.4	76.7	219558	14	AC117028
c 44	18.4	76.7	245135	14	AC111565
45	18.2	75.8	336	6	CO665877
c 46	18.2	75.8	572	10	BV260115
47	18.2	75.8	603	10	BV316004
c 48	18.2	75.8	609	10	BV420253
c 49	18.2	75.8	677	6	CO427854
c 50	18.2	75.8	686	10	BV666707
c 51	18.2	75.8	711	6	CO418953
c 52	18.2	75.8	2817	9	RNU27186
c 53	18.2	75.8	4771	4	AF535144
54	18.2	75.8	21908	14	AC091632
55	18.2	75.8	22500	15	SPBC11C11
56	18.2	75.8	25606	14	AC010554
57	18.2	75.8	30301	14	AC091599
58	18.2	75.8	33398	15	SPBC3B8
59	18.2	75.8	43962	14	AC068192
60	18.2	75.8	44190	14	BX545908
c 61	18.2	75.8	44190	14	BX545908
62	18.2	75.8	50872	14	AC084140
63	18.2	75.8	55588	8	AC073841
c 64	18.2	75.8	61490	14	AC025630
c 65	18.2	75.8	68731	2	AC087415
66	18.2	75.8	68842	14	AC026915
67	18.2	75.8	68984	14	AC103797
c 68	18.2	75.8	69142	15	AB012239
c 69	18.2	75.8	79271	2	CEY105E8B
c 70	18.2	75.8	85140	14	AL158197
71	18.2	75.8	86578	14	AC126326
c 72	18.2	75.8	90248	14	AC108366
c 73	18.2	75.8	91061	14	AC087139
c 74	18.2	75.8	94862	8	AL158140
75	18.2	75.8	95548	14	AC129940_3
76	18.2	75.8	96001	8	AC016945
77	18.2	75.8	110000	14	AC113631_1
78	18.2	75.8	110000	14	AC129939_2
c 79	18.2	75.8	110000	14	CEY105E8_5
c 80	18.2	75.8	110000	15	AP008209_162
81	18.2	75.8	110000	15	AP008209_212
c 82	18.2	75.8	112833	14	AC068881
83	18.2	75.8	118837	8	AC021183
84	18.2	75.8	123695	8	HSJ581113
85	18.2	75.8	123826	14	AC163732
86	18.2	75.8	128032	8	AC091730
c 87	18.2	75.8	131152	9	AL929068
c 88	18.2	75.8	131416	9	AC144733
c 89	18.2	75.8	131901	14	AC158980
90	18.2	75.8	131944	8	AC097659
c 91	18.2	75.8	132384	8	AC116347

c 92	18.2	75.8 132504	9	AL627101	AL627101 Mouse DNA	c 165	18.2	75.8 196799	8	AC146074	AC146074 Pan trogl
c 93	18.2	75.8 132718	9	BX284612	Mouse DNA	c 166	18.2	75.8 196919	14	AC118165	AC118165 Rattus no
c 94	18.2	75.8 135585	15	AC118134	Oryza sat	c 167	18.2	75.8 196678	14	AC163660	AC163660 Mus muscu
c 95	18.2	75.8 136630	14	AC023572	AC023572 Homo sapi	c 168	18.2	75.8 198678	14	AC163660	AC163660 Mus muscu
c 96	18.2	75.8 139072	14	AC011261	AC011261 Homo sapi	c 169	18.2	75.8 198872	8	AC147382	AC147382 Pan trogl
c 97	18.2	75.8 140090	8	AC010448	AC010448 Homo sapi	c 170	18.2	75.8 199086	14	AC132250	AC132250 Mus muscu
c 98	18.2	75.8 140466	8	AL355529	Human DNA	c 171	18.2	75.8 199471	8	AC009097	AC009097 Homo sapi
c 99	18.2	75.8 141441	8	AC087073	AC087073 Homo sapi	c 172	18.2	75.8 201061	8	AC007353	AC007353 Homo sapi
c 100	18.2	75.8 141789	14	CR936970	Danio rer	c 173	18.2	75.8 201359	14	AC128640	AC128640 Homo sapi
c 101	18.2	75.8 143680	14	AC136539	AC136539 Rattus no	c 174	18.2	75.8 201542	14	CR381687	CR381687 Danio rer
c 102	18.2	75.8 146933	14	CR848722	CR848722 Danio rer	c 175	18.2	75.8 202028	14	AC146093	AC146093 Pan trogl
c 103	18.2	75.8 148064	8	AC022861	AC022861 Homo sapi	c 176	18.2	75.8 202188	9	AC124569	AC124569 Mus muscu
c 104	18.2	75.8 150214	8	AC011291	AC011291 Homo sapi	c 177	18.2	75.8 202352	14	AC159140	AC159140 Mus muscu
c 105	18.2	75.8 150275	6	CS086350	Sequence	c 178	18.2	75.8 203655	14	AC164602	AC164602 Mus muscu
c 106	18.2	75.8 151805	14	AC013741	AC013741 Homo sapi	c 179	18.2	75.8 204550	14	AC159392	AC159392 Bos tauru
c 107	18.2	75.8 152312	8	AC106738	AC106738 Homo sapi	c 180	18.2	75.8 206641	14	AC146148	AC146148 Pan trogl
c 108	18.2	75.8 152617	14	AL592188	AL592188 Homo sapi	c 181	18.2	75.8 207715	14	AC164297	AC164297 Mus muscu
c 109	18.2	75.8 153042	14	AL590990	AL590990 Homo sapi	c 182	18.2	75.8 207715	14	AC164297	AC164297 Mus muscu
c 110	18.2	75.8 153042	14	AL590990	AL590990 Homo sapi	c 183	18.2	75.8 207715	14	AC164297	AC164297 Mus muscu
c 111	18.2	75.8 153042	14	AL590990	AL590990 Homo sapi	c 184	18.2	75.8 209105	14	AC161886	AC161886 Pan trogl
c 112	18.2	75.8 154090	14	AC142024	AC142024 Rattus no	c 185	18.2	75.8 209105	14	AL645762	AL645762 Homo sapi
c 113	18.2	75.8 154840	14	AC033035	AC033035 Homo sapi	c 186	18.2	75.8 209751	8	AC087645	AC087645 Homo sapi
c 114	18.2	75.8 157615	4	AC092003	AC092003 Felis cat	c 187	18.2	75.8 213661	9	AC116589	AC116589 Mus muscu
c 115	18.2	75.8 157896	8	AC010283	AC010283 Homo sapi	c 188	18.2	75.8 213661	9	AC116589	AC116589 Mus muscu
c 116	18.2	75.8 159597	8	AC008747	AC008747 Homo sapi	c 189	18.2	75.8 215910	14	BX928752	BX928752 Danio rer
c 117	18.2	75.8 164473	9	AC154506	AC154506 Mus muscu	c 190	18.2	75.8 216157	14	AC162163	AC162163 Mus muscu
c 118	18.2	75.8 166357	8	AC026307	AC026307 Homo sapi	c 191	18.2	75.8 218928	14	AC113664	AC113664 Rattus no
c 119	18.2	75.8 166983	8	AC002541	AC002541 Homo sapi	c 192	18.2	75.8 218928	14	AC097050	AC097050 Rattus no
c 120	18.2	75.8 167067	8	AP003027	AP003027 Homo sapi	c 193	18.2	75.8 220624	9	AC124598	AC124598 Mus muscu
c 121	18.2	75.8 167133	14	AC026186	AC026186 Homo sapi	c 194	18.2	75.8 221931	9	AC122881	AC122881 Mus muscu
c 122	18.2	75.8 167237	14	AC099636	AC099636 Homo sapi	c 195	18.2	75.8 224817	14	AC133836	AC133836 Rattus no
c 123	18.2	75.8 167806	14	AC092572	AC092572 Homo sapi	c 196	18.2	75.8 226865	14	AC098153	AC098153 Rattus no
c 124	18.2	75.8 168128	5	BX957344	BX957344 Zebrafish	c 197	18.2	75.8 227304	8	AC161124	AC161124 Pan trogl
c 125	18.2	75.8 168942	8	AC140830	AC140830 Homo sapi	c 198	18.2	75.8 229728	14	AC127672	AC127672 Rattus no
c 126	18.2	75.8 168372	5	CR354401	CR354401 Zebrafish	c 199	18.2	75.8 230372	14	BX936294	BX936294 Mus muscu
c 127	18.2	75.8 168430	14	AC145037	AC145037 Homo sapi	c 200	18.2	75.8 230372	14	AC073693	AC073693 Mus muscu
c 128	18.2	75.8 168599	9	AL935336	AL935336 Mouse DNA	c 201	18.2	75.8 233984	9	AC154417	AC154417 Rattus no
c 129	18.2	75.8 170799	8	AC107204	AC107204 Homo sapi	c 202	18.2	75.8 237450	14	CR356232	CR356232 Danio rer
c 130	18.2	75.8 170976	14	AC073981	AC073981 Homo sapi	c 203	18.2	75.8 237450	14	CR356232	CR356232 Danio rer
c 131	18.2	75.8 171146	9	AC068808	AC068808 Mus muscu	c 204	18.2	75.8 238036	14	AC117123	AC117123 Rattus no
c 132	18.2	75.8 171405	8	AC117521	AC117521 Homo sapi	c 205	18.2	75.8 238344	14	AC111935	AC111935 Rattus no
c 133	18.2	75.8 171635	8	AL358875	AL358875 Human DNA	c 206	18.2	75.8 238562	9	AC153522	AC153522 Mus muscu
c 134	18.2	75.8 171769	9	AC124393	AC124393 Mus muscu	c 207	18.2	75.8 238751	14	AC095116	AC095116 Rattus no
c 135	18.2	75.8 171969	14	AC027256	AC027256 Homo sapi	c 208	18.2	75.8 239241	14	AC128484	AC128484 Rattus no
c 136	18.2	75.8 172387	14	AC073579	AC073579 Homo sapi	c 209	18.2	75.8 243537	14	AC132629	AC132629 Rattus no
c 137	18.2	75.8 172972	14	AL353644	AL353644 Homo sapi	c 210	18.2	75.8 243537	14	AC132629	AC132629 Rattus no
c 138	18.2	75.8 174910	15	AC133333	AC133333 Oryza sat	c 211	18.2	75.8 249899	14	AC132469	AC132469 Mus muscu
c 139	18.2	75.8 175559	14	AC145101	AC145101 Homo sapi	c 212	18.2	75.8 258193	9	AC101221	AC101221 Mus muscu
c 140	18.2	75.8 177161	9	AC125340	AC125340 Mus muscu	c 213	18.2	75.8 258193	9	AC101221	AC101221 Mus muscu
c 141	18.2	75.8 177513	8	AC022874	AC022874 Homo sapi	c 214	18.2	75.8 259474	14	AC095692	AC095692 Rattus no
c 142	18.2	75.8 178800	14	AC149166	AC149166 Ootolemur	c 215	18.2	75.8 259474	14	AC107431	AC107431 Rattus no
c 143	18.2	75.8 179318	14	AC164117	AC164117 Mus muscu	c 216	18.2	75.8 261710	14	AC107431	AC107431 Rattus no
c 144	18.2	75.8 179318	14	AC164117	AC164117 Mus muscu	c 217	18.2	75.8 264661	14	AC094217	AC094217 Rattus no
c 145	18.2	75.8 179357	14	AC165341	AC165341 Mus muscu	c 218	18.2	75.8 269985	14	AC158120	AC158120 Mus muscu
c 146	18.2	75.8 179957	14	AC165341	AC165341 Mus muscu	c 219	18.2	75.8 303506	14	AC114691	AC114691 Rattus no
c 147	18.2	75.8 180390	5	BX908731	BX908731 Zebrafish	c 220	18.2	75.8 313264	14	AC023053	AC023053 Homo sapi
c 148	18.2	75.8 181070	14	AC145850	AC145850 Gallus ga	c 221	18.2	75.8 335694	14	BX571984	BX571984 Danio rer
c 149	18.2	75.8 182133	8	AC009626	AC009626 Homo sapi	c 222	18.2	75.8 343957	8	AL356313	AL356313 Human DNA
c 150	18.2	75.8 182252	9	AC009626	AC009626 Homo sapi	c 223	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 151	18.2	75.8 182523	8	AC0153879	AC0153879 Mus muscu	c 224	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 152	18.2	75.8 184515	8	AC010653	AC010653 Homo sapi	c 225	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 153	18.2	75.8 185203	14	AL161649	AL161649 Homo sapi	c 226	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 154	18.2	75.8 185281	14	AC011214	AC011214 Homo sapi	c 227	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 155	18.2	75.8 186860	9	AC161511	AC161511 Mus muscu	c 228	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 156	18.2	75.8 187806	9	AC154552	AC154552 Mus muscu	c 229	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 157	18.2	75.8 189097	14	AC022442	AC022442 Homo sapi	c 230	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 158	18.2	75.8 190359	14	AC118356	AC118356 Rattus no	c 231	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 159	18.2	75.8 193523	9	AC132261	AC132261 Mus muscu	c 232	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 160	18.2	75.8 193211	9	AC130823	AC130823 Mus muscu	c 233	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 161	18.2	75.8 193930	8	AC006296	AC006296 Homo sapi	c 234	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 162	18.2	75.8 196144	9	AC121788	AC121788 Mus muscu	c 235	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 163	18.2	75.8 196545	8	AC113390	AC113390 Homo sapi	c 236	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu
c 164	18.2	75.8 196695	14	AC078936	AC078936 Homo sapi	c 237	18.2	75.8 35268	9	AC132332	AC132332 Mus muscu

238	17.8	74.2	4366	6	CS041819	CS041819 Sequence	17.8	74.2	198641	9	AC149586	AC149586 Mus muscu
239	17.8	74.2	4366	6	CS129146	CS129146 Sequence	17.8	74.2	198729	8	HS18316	AL449883 Homo sapi
240	17.8	74.2	4366	6	AX659596	AX659596 Sequence	17.8	74.2	199003	14	CR848788	CR848788 Bos tauru
241	17.8	74.2	4366	6	HUMLYK	D13720 Homo sapien	17.8	74.2	199041	14	CR848788	CR848788 Bos tauru
242	17.8	74.2	4839	6	CS051446	CS051446 Sequence	17.8	74.2	204318	5	BX005374	BX005374 Zebrafish
243	17.8	74.2	4883	6	CS131092	CS131092 Sequence	17.8	74.2	206023	14	AC146657	AC146657 Otolomur
244	17.8	74.2	5854	2	DHHSR333	X81207 D.melanogas	17.8	74.2	209506	9	AC122842	AC122842 Mus muscu
245	17.8	74.2	5869	8	AB209622	AB209622 Homo sapi	17.8	74.2	211897	14	AC118500	AC118500 Rattus no
246	17.8	74.2	6381	6	CS036862	CS036862 Sequence	17.8	74.2	215241	9	AL662823	AL662823 Mouse DNA
247	17.8	74.2	6381	6	CS045814	CS045814 Sequence	17.8	74.2	216252	14	AC128547	AC128547 Rattus no
248	17.8	74.2	6381	6	AX587575	AX587575 Sequence	17.8	74.2	217521	14	AC016047	AC016047 Homo sapi
249	17.8	74.2	6381	6	S65186	S65186 EMT-T-cell-	17.8	74.2	220713	9	AC025047	AC025047 Mus muscu
250	17.8	74.2	6382	6	CS129259	CS129259 Sequence	17.8	74.2	223780	14	AC109849	AC109849 Rattus no
251	17.8	74.2	6383	6	AX330963	AX330963 Sequence	17.8	74.2	227958	14	AC095293	AC095293 Rattus no
252	17.8	74.2	6383	6	AX925612	AX925612 Sequence	17.8	74.2	228004	14	AC094278	AC094278 Rattus no
253	17.8	74.2	6383	8	HUWTKCS	L10717 Homo sapien	17.8	74.2	234011	14	AC118412	AC118412 Rattus no
254	17.8	74.2	6381	6	AF134119	AF134119 Mus muscu	17.8	74.2	234810	14	AC105654	AC105654 Rattus no
255	17.8	74.2	34700	14	AC019929	AC019929 Drosophil	17.8	74.2	240425	9	CNS07YOT	AL713839 Mus muscu
256	17.8	74.2	3667	9	AL731863	AL731863 Mouse DNA	17.8	74.2	241883	14	AC133445	AC133445 Rattus no
257	17.8	74.2	78529	14	AC012807	AC012807 Drosophil	17.8	74.2	247025	14	AC108327	AC108327 Rattus no
258	17.8	74.2	86751	8	AC067728	AC067728 Homo sapi	17.8	74.2	249269	14	AC128728	AC128728 Rattus no
259	17.8	74.2	89117	14	AC006407	AC006407 Homo sapi	17.8	74.2	250840	14	AC127193	AC127193 Rattus no
260	17.8	74.2	92340	15	AC149267	AC149267 Solanum d	17.8	74.2	251564	14	AC125698	AC125698 Rattus no
261	17.8	74.2	92563	6	AX695695	AX695695 Sequence	17.8	74.2	253877	14	AC097236	AC097236 Rattus no
262	17.8	74.2	95357	15	AX350711	AX350711 Stenobriu	17.8	74.2	256944	14	AC096512	AC096512 Rattus no
263	17.8	74.2	105489	8	AC093894	AC093894 Homo sapi	17.8	74.2	260665	14	AC113858	AC113858 Rattus no
264	17.8	74.2	110000	1	CP000107_11	Continuation (12 o	17.8	74.2	265001	14	AC121746	AC121746 Rattus no
265	17.8	74.2	110000	1	CR522870_05	Continuation (6 of	17.8	74.2	267779	14	AC112826	AC112826 Rattus no
266	17.8	74.2	110000	1	AP06841_44	Continuation (45 o	17.8	74.2	271725	14	AC116298	AC116298 Rattus no
267	17.8	74.2	110000	15	AP008210_237	Continuation (238	17.8	74.2	275838	14	AL627428	AL627428 Mus muscu
268	17.8	74.2	110000	15	AP008210_238	Continuation (239	17.8	74.2	280915	14	AC112104	AC112104 Rattus no
269	17.8	74.2	122890	15	AP008210_238	AP008210 Physcomit	17.8	74.2	281203	14	AC132748	AC132748 Rattus no
270	17.8	74.2	129489	9	AL713860	AL713860 Mouse DNA	17.8	74.2	290433	14	AC111255	AC111255 Rattus no
271	17.8	74.2	130515	9	AC117195	AC117195 Mus muscu	17.8	74.2	290970	2	AE003446	AE003446 Drosophil
272	17.8	74.2	138613	8	AC092538	AC092538 Homo sapi	17.8	74.2	294542	2	AE003519	AE003519 Drosophil
273	17.8	74.2	140739	8	AP005432	AP005432 Homo sapi	17.8	74.2	337344	6	Q0869869	Q0869869 Sequence
274	17.8	74.2	142576	8	AC010609	AC010609 Homo sapi	17.6	73.3	937	15	AY383240	AY383240 Glycine m
275	17.8	74.2	143148	9	AL607034	AL607034 Mouse DNA	17.6	73.3	1226	15	SCA243214	SCA243214 Saccharomy
276	17.8	74.2	145594	9	AL645753	AL645753 Mouse DNA	17.6	73.3	1226	15	SMO243215	SMO243215 Sacchro
277	17.8	74.2	148352	14	AC109813	AC109813 Homo sapi	17.6	73.3	1235	15	SPA243220	SPA243220 Saccharom
278	17.8	74.2	148508	14	AC027795	AC027795 Homo sapi	17.6	73.3	1351	15	DQ130087	DQ130087 Saccharom
279	17.8	74.2	150488	8	AL359392	AL359392 Human DNA	17.6	73.3	2202	5	BC096813	BC096813 Danio rer
280	17.8	74.2	156393	14	OSJUN00030	AL606893 Oryza sat	17.6	73.3	2691	9	MM250719	MM250719 Mus muscu
281	17.8	74.2	158391	14	AC008023	AC008023 Homo sapi	17.6	73.3	2691	9	WH250719	WH250719 Mus muscu
282	17.8	74.2	160155	15	OSJUN00232	AL731582 Oryza sat	17.6	73.3	37350	9	AC154027	AC154027 Mus muscu
283	17.8	74.2	160392	8	AC104236	AC104236 Homo sapi	17.6	73.3	41480	8	AC018917	AC018917 Homo sapi
284	17.8	74.2	161393	9	AL645966	AL645966 Mouse DNA	17.6	73.3	41702	8	HSAC000366	HSAC000366 Human cos
285	17.8	74.2	161765	8	AC113190	AC113190 Homo sapi	17.6	73.3	61635	8	AC110812	AC110812 Homo sapi
286	17.8	74.2	163472	14	AC155568	AC155568 Zea mays	17.6	73.3	76828	14	AP007648	AP007648 Lotus cor
287	17.8	74.2	164736	8	AC105275	AC105275 Homo sapi	17.6	73.3	87484	14	AC149158	AC149158 Xenopus t
288	17.8	74.2	165637	9	AC154287	AC154287 Mus muscu	17.6	73.3	92563	14	AC161970	AC161970 Bos tauru
289	17.8	74.2	165987	5	AC147883	AC147883 Xenopus t	17.6	73.3	94971	8	AC127893	AC127893 Homo sapi
290	17.8	74.2	166971	8	AL157812	AL157812 Human DNA	17.6	73.3	95521	14	AC134499	AC134499 Rattus no
291	17.8	74.2	167908	8	AC122177	AC122177 Homo sapi	17.6	73.3	107180	15	AC136504	AC136504 Medicago
292	17.8	74.2	169997	14	AC021927	AC021927 Homo sapi	17.6	73.3	108937	8	AC098593	AC098593 Homo sapi
293	17.8	74.2	169043	14	AC018428	AC018428 Homo sapi	17.6	73.3	110000	1	CR522870_12	CR522870_12 Continuation (13 o
294	17.8	74.2	169132	9	AC124712	AC124712 Mus muscu	17.6	73.3	110000	1	CP000020_09	CP000020_09 Continuation (10 o
295	17.8	74.2	169149	14	AL928724	AL928724 Danio rer	17.6	73.3	110000	14	AC105643_2	AC105643_2 Continuation (3 of
296	17.8	74.2	170301	14	AC069487	AC069487 Homo sapi	17.6	73.3	110000	14	AC105643_4	AC105643_4 Continuation (5 of
297	17.8	74.2	176947	8	HS170A21	Z82189 Human DNA s	17.6	73.3	110000	14	AC120578_1	AC120578_1 Continuation (2 of
298	17.8	74.2	178628	2	AC009385	AC009385 Drosophil	17.6	73.3	110000	15	AE016817_02	AE016817_02 Continuation (3 of
299	17.8	74.2	181075	9	CNS07Y22	AL713885 Mus muscu	17.6	73.3	110000	15	AP008208_196	AP008208_196 Continuation (197
300	17.8	74.2	181278	14	AC013328	AC013328 Homo sapi	17.6	73.3	112648	8	AL356603	AL356603 Human DNA
301	17.8	74.2	181755	14	AC015758	AC015758 Homo sapi	17.6	73.3	112907	9	AL670865	AL670865 Mouse DNA
302	17.8	74.2	182635	2	AC023729	AC023729 Drosophil	17.6	73.3	115224	8	AL356234	AL356234 Human DNA
303	17.8	74.2	183137	8	AC008734	AC008734 Homo sapi	17.6	73.3	129832	8	AC062029	AC062029 Homo sapi
304	17.8	74.2	184511	14	AC159155	AC159155 Otolomur	17.6	73.3	130336	8	AC006346	AC006346 Homo sapi
305	17.8	74.2	187230	2	AC023719	AC023719 Drosophil	17.6	73.3	138140	9	AL831760	AL831760 Mouse DNA
306	17.8	74.2	187389	14	AC121052	AC121052 Rattus no	17.6	73.3	138603	14	AC034182	AC034182 Homo sapi
307	17.8	74.2	187973	2	AC009380	AC009380 Drosophil	17.6	73.3	139677	8	AC008914	AC008914 Homo sapi
308	17.8	74.2	189510	5	CR391977	CR391977 Zebrafish	17.6	73.3	141407	14	BX936452	BX936452 Danio rer
309	17.8	74.2	192814	8	AC007597	AC007597 Homo sapi	17.6	73.3	142552	8	HS5911B8	AL035410 Human DNA
310	17.8	74.2	196755	8	AC002382	AC002382 Homo sapi	17.6	73.3	142552	8	HS5911B8	AL035410 Human DNA

[illegible]

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2964.92 Seconds  
(without alignments)  
378.725 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24  
Sequence: 1 gcaatccctacaaagagaagat 24

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_est3:\*

4: gb\_est4:\*

5: gb\_est5:\*

6: gb\_est6:\*

7: gb\_est7:\*

8: gb\_est8:\*

9: gb\_est9:\*

10: gb\_est10:\*

11: gb\_est11:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	22.4	93.3	485	6	CA721426 wdk9n.pk0
2	22.4	93.3	670	3	BJ296872 BJ296872
3	22.4	93.3	1147	7	CK166638 FGAS05080
4	22.4	93.3	1149	7	CK167615 FGAS05201
5	22.4	93.3	1160	7	CK167307 FGAS05163
6	22.4	93.3	1198	7	CK168204 FGAS05270
7	21.4	89.2	284	6	CA624207 wln.pk01
8	21.4	89.2	526	1	AJ610886 AJ610886
9	21.4	89.2	593	3	BJ218387 BJ218387
10	21.4	89.2	664	2	BG905270 TAlr1138E
11	21.4	89.2	696	3	BM137990 WHE0479.A
12	21.4	89.2	727	3	BJ220643 BJ220643
13	21.4	89.2	879	7	CK155817 FGAS03668
14	21.4	89.2	879	7	CK156289 FGAS03720
15	20.8	86.7	367	5	BQ762109 EBP101.SQ
16	20.8	86.7	438	1	AU089946 AU089946
17	20.8	86.7	443	1	AU089907 AU089907
18	20.8	86.7	462	8	CX629678 GCW003B24
19	20.8	86.7	515	6	CB862498 HH04G02U
20	20.8	86.7	528	1	AV942818 AV942818
21	20.8	86.7	543	5	BU985874 HF08007r
22	20.8	86.7	568	5	CA001228 HS18N04U

CA001528	HS17M10u	568	86.7	20.8	23
CA010201	WHE3867.H	613	86.7	20.8	24
CV057250	BNEL255f	7	86.7	20.8	c 25
BJ468205	BJ468205	620	86.7	20.8	c 26
BJ465087	BJ465087	672	86.7	20.8	c 27
AV945607	AV945607	678	86.7	20.8	c 28
DN186674	HO28K09w	700	86.7	20.8	c 29
DR732145	FGAS07806	892	86.7	20.8	c 30
CK157744	FGAS03890	894	86.7	20.8	c 31
CM164136	104_572_1	669	82.5	19.8	c 32
BZ346741	hv83508.5	696	82.5	19.8	c 33
CX907882	JG1_CAA6	796	82.5	19.8	c 34
BG851042	1024030B0	1527	80.8	19.4	c 35
CR508908	mtch4-7F7R	391	80.0	19.2	c 36
BP874046	BP874046	656	80.0	19.2	c 37
CD453275	WHE1817-1	721	80.0	19.2	c 38
BI147572	GO2913013	751	80.0	19.2	c 39
BQ896781	AGENCOURT	1286	80.0	19.2	c 40
AZ350245	IMO087001	606	79.2	19.0	c 41
CZ577409	OA_BBa019	328	78.3	18.8	c 42
CR902932	SUB scroF	376	78.3	18.8	c 43
BQ113307	EST59883	485	78.3	18.8	c 44
CD603975	RZ151A1F0	500	78.3	18.8	c 45
CO910851	BJ03011G1	520	78.3	18.8	c 46
CJ372257	CJ372257	558	78.3	18.8	c 47
CK754034	pan01-4ms	615	78.3	18.8	c 48
CJ356520	CJ356520	757	78.3	18.8	c 49
DU062970	75731.Tom	773	78.3	18.8	c 50
CJ358965	CJ358965	780	78.3	18.8	c 51
CC480038	CH240_307	800	78.3	18.8	c 52
CD559375	AGENCOURT	810	78.3	18.8	c 53
CJ387420	CJ387420	830	78.3	18.8	c 54
CNS025Y5	Tetraodon	866	78.3	18.8	c 55
CJ387103	CJ387103	881	78.3	18.8	c 56
CZ386701	ZMMBF0162	901	78.3	18.8	c 57
CL113912	ISB1-59E1	918	78.3	18.8	c 58
CNS05KF7	Tetraodon	1086	78.3	18.8	c 59
BX682331	BX682331	319	76.7	18.4	c 60
BX254569	BX254569	324	76.7	18.4	c 61
CV038845	4136037.B	475	76.7	18.4	c 62
CNS00NKZ	Arabidops	551	76.7	18.4	c 63
BU477867	603848384	653	76.7	18.4	c 64
CZ838744	OC_Ba022	690	76.7	18.4	c 65
BX255740	BX255740	692	76.7	18.4	c 66
CK827335	zmr-subl.0	786	76.7	18.4	c 67
BU481901	603471186	787	76.7	18.4	c 68
CNS026FT	Tetraodon	1017	76.7	18.4	c 69
CC185175	CH261-142	1151	76.7	18.4	c 70
BG762454	602733891	1203	76.7	18.4	c 71
B10156	F5A12-T7.IG	1224	76.7	18.4	c 72
EX815195	Arabidops	2407	76.7	18.4	c 73
T89914	yellow1.r1	200	75.8	18.2	c 74
AA084792	zn13a07.r	222	75.8	18.2	c 75
BA007096	QV3-RT006	225	75.8	18.2	c 76
AJ685765	AJ685765	247	75.8	18.2	c 77
AQ069239	HS_2253.B	261	75.8	18.2	c 78
DN490512	UT57PE11	266	75.8	18.2	c 79
AA326659	EST29869	310	75.8	18.2	c 80
AW884337	QV3-OT006	325	75.8	18.2	c 81
AA558024	n128f12.s	344	75.8	18.2	c 82
AV801140	AV801140	394	75.8	18.2	c 83
AQ828878	HS_4809.A	438	75.8	18.2	c 84
CN957910	5410_1001	442	75.8	18.2	c 85
AQ41880	HS_5137.A	458	75.8	18.2	c 86
CV434048	RT3103.Ch	462	75.8	18.2	c 87
BB823337	BB823337	463	75.8	18.2	c 88
AQ776388	HS_2162.B	500	75.8	18.2	c 89
CV354427	MF4-BN03B	511	75.8	18.2	c 90
BE132826	uf3602.x	512	75.8	18.2	c 91
BM968906	UT-CF-DU1	519	75.8	18.2	c 92
CV650857	OA_ABa019	525	75.8	18.2	c 93
CO107478	GR_EB003	531	75.8	18.2	c 94
CR674858	Tetraodon	542	75.8	18.2	c 95

C 96	18.2	75.8	550	7	CO493444	G.h.fbr-s	CO493444	G.h.fbr-s	169	17.8	74.2	369	5	BQ519463	BQ519463	rd34e06.y
C 97	18.2	75.8	551	10	CE518856	tigr-g8s-	CE518856	tigr-g8s-	170	17.8	74.2	381	1	AI851059	AI851059	UI-M-BHO-
C 98	18.2	75.8	559	3	BM720119	UI-E-E00-	BM720119	UI-E-E00-	C 171	17.8	74.2	381	3	BI319824	BI319824	ie44b07.y
C 99	18.2	75.8	562	9	BH034913	RPCI-24-3	BH034913	RPCI-24-3	C 172	17.8	74.2	398	6	CA564169	CA564169	K0223A04-
C 100	18.2	75.8	570	6	AQ334273	HS 5005.A	AQ334273	HS 5005.A	C 173	17.8	74.2	403	3	BP382860	BP382860	BP382860
C 101	18.2	75.8	576	6	CD819791	BN20.050C	CD819791	BN20.050C	C 174	17.8	74.2	431	2	BB777517	BB777517	BB777517
C 102	18.2	75.8	576	6	AQ585834	RPCI-11-4	AQ585834	RPCI-11-4	C 175	17.8	74.2	433	5	BK646272	BK646272	DKF2p781G
C 103	18.2	75.8	603	9	AZ808856	2M0072P03	AZ808856	2M0072P03	C 176	17.8	74.2	433	5	AQ687918	AQ687918	nbxb0075P
C 104	18.2	75.8	609	1	AW187927	BNLGH1129	AW187927	BNLGH1129	C 177	17.8	74.2	443	1	AW323987	AW323987	ug43d11.y
C 105	18.2	75.8	612	9	BB634855	BB634855	BB634855	BB634855	C 178	17.8	74.2	448	7	CO235243	CO235243	WS0264.B2
C 106	18.2	75.8	613	9	BH034142	RPCI-24-3	BH034142	RPCI-24-3	C 179	17.8	74.2	468	9	AQ770958	AQ770958	WS0264.B2
C 107	18.2	75.8	628	10	CM323829	104.818.1	CM323829	104.818.1	C 180	17.8	74.2	472	2	BE656460	BE656460	UI-M-BHO-
C 108	18.2	75.8	643	2	BF398395	UI-R-PS2-	BF398395	UI-R-PS2-	C 181	17.8	74.2	472	2	BE632078	BE632078	us56f09.y
C 109	18.2	75.8	646	10	BM133185	Danio.rer	BM133185	Danio.rer	C 182	17.8	74.2	490	2	BE976254	BE976254	bs48f04.y
C 110	18.2	75.8	652	2	BF324417	ZM4E05.Y	BF324417	ZM4E05.Y	C 183	17.8	74.2	495	11	TA55F03Q	TA55F03Q	T.brucei
C 111	18.2	75.8	653	10	CL456916	ZM4E05.Y	CL456916	ZM4E05.Y	C 184	17.8	74.2	502	2	BE335757	BE335757	ue94h03.y
C 112	18.2	75.8	655	10	CL315115	mtH2-133E	CL315115	mtH2-133E	C 185	17.8	74.2	509	5	BU897479	BU897479	Q038E02.P
C 113	18.2	75.8	656	10	CL323830	104.818.1	CL323830	104.818.1	C 186	17.8	74.2	514	9	BU744544	BU744544	gf38e07.b
C 114	18.2	75.8	658	11	CR186086	Reverse.B	CR186086	Reverse.B	C 187	17.8	74.2	536	2	BE978424	BE978424	bs79f04.y
C 115	18.2	75.8	660	9	AZ333736	1M0062018	AZ333736	1M0062018	C 188	17.8	74.2	536	9	AQ63474	AQ63474	HS.5200.B
C 116	18.2	75.8	668	10	CZ012271	OR.BBa009	CZ012271	OR.BBa009	C 189	17.8	74.2	563	5	BQ566954	BQ566954	gi7ad08.y
C 117	18.2	75.8	671	6	CD292800	StrPu536.	CD292800	StrPu536.	C 190	17.8	74.2	572	11	CR075474	CR075474	Forward.B
C 118	18.2	75.8	673	10	AG144935	Pan.trog1	AG144935	Pan.trog1	C 191	17.8	74.2	582	7	CO240588	CO240588	WS00715.B
C 119	18.2	75.8	682	9	AZ316624	1M0034P17	AZ316624	1M0034P17	C 192	17.8	74.2	585	7	CK434495	CK434495	Q0062.TB
C 120	18.2	75.8	689	7	CM412008	170005322	CM412008	170005322	C 193	17.8	74.2	599	5	BQ564217	BQ564217	g112g08.y
C 121	18.2	75.8	692	9	AZ660026	1M0537B20	AZ660026	1M0537B20	C 194	17.8	74.2	599	6	CF162881	CF162881	B0718A08-
C 122	18.2	75.8	694	9	CC943992	BOIB164TF	CC943992	BOIB164TF	C 195	17.8	74.2	600	2	BG069913	BG069913	2042-83.M
C 123	18.2	75.8	696	10	AG179532	Pan.trog1	AG179532	Pan.trog1	C 196	17.8	74.2	601	7	CO472697	CO472697	Q00081.TB
C 124	18.2	75.8	707	10	CE329112	tigr-g8s-	CE329112	tigr-g8s-	C 197	17.8	74.2	606	7	CK438107	CK438107	Q00081.TB
C 125	18.2	75.8	711	9	CE165562	tigr-g8s-	CE165562	tigr-g8s-	C 198	17.8	74.2	611	7	CK437894	CK437894	Q00081.TB
C 126	18.2	75.8	720	2	BE585516	ES7#6PT7	BE585516	ES7#6PT7	C 199	17.8	74.2	612	2	BG409677	BG409677	SI0-3-C2
C 127	18.2	75.8	721	9	AZ341582	1M0074102	AZ341582	1M0074102	C 200	17.8	74.2	618	9	BH267187	BH267187	CH230-138
C 128	18.2	75.8	722	11	CT021897	KBrH132C2	CT021897	KBrH132C2	C 201	17.8	74.2	626	7	CK444307	CK444307	Q00071.TB
C 129	18.2	75.8	725	9	BZ189739	CH230-390	BZ189739	CH230-390	C 202	17.8	74.2	630	1	AA186149	AA186149	mp60b06.y
C 130	18.2	75.8	729	9	AZ808854	2M0072P01	AZ808854	2M0072P01	C 203	17.8	74.2	631	9	BH692356	BH692356	BOMT13TR
C 131	18.2	75.8	731	11	CR186976	Reverse.s	CR186976	Reverse.s	C 204	17.8	74.2	638	7	CO232973	CO232973	WS0055.B2
C 132	18.2	75.8	732	10	CL778294	OR.BBa009	CL778294	OR.BBa009	C 205	17.8	74.2	639	7	CO243712	CO243712	WS0035.B2
C 133	18.2	75.8	733	10	CL149398	104.330.1	CL149398	104.330.1	C 206	17.8	74.2	652	7	CK436326	CK436326	Q00043.TB
C 134	18.2	75.8	743	7	CO520918	3530.1.13	CO520918	3530.1.13	C 207	17.8	74.2	655	7	CK444382	CK444382	Q00071.TB
C 135	18.2	75.8	748	8	CK612270	GABR1.1.B	CK612270	GABR1.1.B	C 208	17.8	74.2	658	2	BH626715	BH626715	BG26715
C 136	18.2	75.8	748	11	CR277547	Reverse.s	CR277547	Reverse.s	C 209	17.8	74.2	661	9	CC318386	CC318386	TAM32-32A
C 137	18.2	75.8	754	9	BH723273	BOMW83TF	BH723273	BOMW83TF	C 210	17.8	74.2	667	6	CD773692	CD773692	AGENCOURT
C 138	18.2	75.8	763	3	BI886800	ZF637.1-0	BI886800	ZF637.1-0	C 211	17.8	74.2	673	9	BZ025430	BZ025430	oe34a06.y
C 139	18.2	75.8	774	9	AF010872	AF010872	AF010872	AF010872	C 212	17.8	74.2	675	1	AA118764	AA118764	mp60b06.y
C 140	18.2	75.8	776	7	CO113445	GR.EB013	CO113445	GR.EB013	C 213	17.8	74.2	676	6	CF517111	CF517111	CA90004.I
C 141	18.2	75.8	785	9	BH513957	BOHJ26TF	BH513957	BOHJ26TF	C 214	17.8	74.2	678	7	CV674823	CV674823	ie44b07.k
C 142	18.2	75.8	785	10	CL740191	OR.BBa007	CL740191	OR.BBa007	C 215	17.8	74.2	678	6	CA262892	CA262892	SCPRLB202
C 143	18.2	75.8	789	7	AI965928	sc79h06.y	AI965928	sc79h06.y	C 216	17.8	74.2	678	7	CO243413	CO243413	WS0034.B2
C 144	18.2	75.8	798	7	CO108989	GR.EB004	CO108989	GR.EB004	C 217	17.8	74.2	681	9	BZ008561	BZ008561	oeF04f09.y
C 145	18.2	75.8	803	10	CG120802	PuF848TB	CG120802	PuF848TB	C 218	17.8	74.2	687	10	AG339638	AG339638	Mus.muscu
C 146	18.2	75.8	825	6	CA939398	ru13g08.y	CA939398	ru13g08.y	C 219	17.8	74.2	690	8	DR562443	DR562443	WS02625.C
C 147	18.2	75.8	841	9	CC690730	OGULV48TH	CC690730	OGULV48TH	C 220	17.8	74.2	684	9	BH504992	BH504992	BOSG03TF
C 148	18.2	75.8	851	10	CZ221472	ATAA-aag0	CZ221472	ATAA-aag0	C 221	17.8	74.2	691	9	BZ048560	BZ048560	Jnr28d04.
C 149	18.2	75.8	851	9	CG690737	OGULV48TV	CG690737	OGULV48TV	C 222	17.8	74.2	685	7	CF950211	CF950211	UI-M-BHO-
C 150	18.2	75.8	871	7	CV288651	af01-16m	CV288651	af01-16m	C 223	17.8	74.2	686	9	BH927100	BH927100	odi21d03.
C 151	18.2	75.8	875	10	CG048794	PuF848TB	CG048794	PuF848TB	C 224	17.8	74.2	687	10	AG339638	AG339638	Mus.muscu
C 152	18.2	75.8	877	9	CC253765	CH261-106	CC253765	CH261-106	C 225	17.8	74.2	690	8	DR562443	DR562443	WS02625.C
C 153	18.2	75.8	902	10	CL498819	SAIL.660	CL498819	SAIL.660	C 226	17.8	74.2	691	9	BH504992	BH504992	BOSG03TF
C 154	18.2	75.8	932	9	BZ792547	PUGBR38TD	BZ792547	PUGBR38TD	C 227	17.8	74.2	692	9	BH268045	BH268045	Jnr28d04.
C 155	18.2	75.8	937	9	BZ792543	PUGBR38TB	BZ792543	PUGBR38TB	C 228	17.8	74.2	694	9	BZ025317	BZ025317	oe169h12.
C 156	18.2	75.8	975	10	CG120800	PuF8280TB	CG120800	PuF8280TB	C 229	17.8	74.2	696	9	BZ003716	BZ003716	oen83c02.
C 157	18.2	75.8	1124	10	CL026679	CH216-23K	CL026679	CH216-23K	C 230	17.8	74.2	698	1	AJ778792	AJ778792	oeK66c02.
C 158	18.2	75.8	1619	2	BG259623	602378763	BG259623	602378763	C 231	17.8	74.2	701	9	BZ017784	BZ017784	oeK66c02.
C 159	18.2	75.8	1627	10	CM339942	104.840.1	CM339942	104.840.1	C 232	17.8	74.2	701	9	BZ063733	BZ063733	UI-M-GW0-
C 160	18.2	75.8	655	10	CE843470	tigr-g8s-	CE843470	tigr-g8s-	C 233	17.8	74.2	706	6	CD808328	CD808328	CE324672
C 161	18.2	75.8	659	9	AZ489051	1M0319G07	AZ489051	1M0319G07	C 234	17.8	74.2	707	10	CE324672	CE324672	tigr-g8s-
C 162	18.2	75.8	689	10	CM339941	104.840.1	CM339941	104.840.1	C 235	17.8	74.2	710	9	BH653549	BH653549	BOHB77TF
C 163	18.2	75.8	698	9	AZ018708	Mus.muscu	AZ018708	Mus.muscu	C 236	17.8	74.2	717	9	BH466930	BH466930	BOHB77TF
C 164	18.2	75.8	714	10	AG371697	Reverse.s	AG371697	Reverse.s	C 237	17.8	74.2	719	10	AG322647	AG322647	Mus.muscu
C 165	18.2	75.8	819	11	CR221014	Reverse.s	CR221014	Reverse.s	C 238	17.8	74.2	723	2	BG613146	BG613146	602640886
C 166	17.8	74.2	77	10	CM838697	GT6362.Ds	CM838697	GT6362.Ds	C 239	17.8	74.2	731	9	BZ081489	BZ081489	11b97d12.
C 167	17.8	74.2	255	2	BZ244067	TCRAP1E04	BZ244067	TCRAP1E04	C 240	17.8	74.2	732	10	AJ832840	AJ832840	Drosophila
C 168	17.8	74.2	340	1	AW505115	UI-HF-BNO	AW505115	UI-HF-BNO	C 241	17.8	74					





388 17.6 73.3 793 5 BU254216 603748248  
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 C 390 17.6 73.3 794 8 DN032389 JGI CAAR9  
 C 391 17.6 73.3 794 8 DT071401 AGENCOURT  
 C 392 17.6 73.3 805 8 CX707044 gmrtdrns0  
 C 393 17.6 73.3 805 10 BX9822384 Reverse s  
 C 394 17.6 73.3 806 10 BX136379 Danio rer  
 C 395 17.6 73.3 811 8 DN028047 JGI CAAR6  
 C 396 17.6 73.3 813 10 DU020031 277604 To  
 C 397 17.6 73.3 816 8 CX022450 EST940769  
 C 398 17.6 73.3 825 8 CX711896 gmrtdrns0  
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 C 400 17.6 73.3 833 8 DN027882 JGI CAAR6  
 C 401 17.6 73.3 841 9 BZ286034 CH230-471  
 C 402 17.6 73.3 870 7 CV636578 EST915331  
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 C 404 17.6 73.3 882 2 BE963185 601656801  
 C 405 17.6 73.3 892 10 CL022011 CH216-120  
 C 406 17.6 73.3 897 11 CNS040KA AL302707 Tetraodon  
 C 407 17.6 73.3 900 7 CJ386892 CJ386892  
 C 408 17.6 73.3 922 7 CX415039 AUF IPit  
 C 409 17.6 73.3 927 5 BX771458 BX771458  
 C 410 17.6 73.3 974 8 DN806669 CL146659 ISB1-1471  
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 C 413 17.6 73.3 1101 10 CNS01733 CC13471 TAM32-16N  
 C 414 17.6 73.3 1196 9 CC13471 CC13471  
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 C 422 17.4 72.5 176 1 AU259013 AU259013  
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 C 424 17.4 72.5 281 10 CG855312 CG855312 ZMMBC022  
 C 425 17.4 72.5 292 7 CN699709 CN699709 E0425C01-  
 C 426 17.4 72.5 338 3 EM004462 TgESTya8  
 C 427 17.4 72.5 349 11 CR198506 Forward s  
 C 428 17.4 72.5 353 9 AZ512331 IM0357J17  
 C 429 17.4 72.5 385 2 BB872123 BB872123  
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 C 431 17.4 72.5 401 3 BM176693 TgESTya9  
 C 432 17.4 72.5 403 9 AQ309320 CTIBL-E1  
 C 433 17.4 72.5 441 3 BM176568 BM176568 TgESTya9  
 C 434 17.4 72.5 444 7 CO147905 CO147905 EST822958  
 C 435 17.4 72.5 464 11 CR869662 Sub scrof  
 C 436 17.4 72.5 469 9 AZ482899 IM0308P09  
 C 437 17.4 72.5 470 3 BM039899 BM039899 TgESTya7  
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 C 452 17.4 72.5 669 2 BB648079 BB648079  
 C 453 17.4 72.5 695 6 CA240600 SCSBFL406  
 C 454 17.4 72.5 704 7 CN529584 UI-M-HQO-  
 C 455 17.4 72.5 716 9 BZ612396 BZ612396 WHABV48TF  
 C 456 17.4 72.5 764 10 AG586203 Mus muscu  
 C 457 17.4 72.5 771 5 BU562579 AGENCOURT  
 C 458 17.4 72.5 782 5 BU794786 SJF2DHD08  
 C 459 17.4 72.5 819 9 BZ194833 BZ194833 CH230-269  
 C 460 17.4 72.5 833 10 CNS010YA AL099580 Drosophila

461 17.4 72.5 866 5 BX443781 BX443781  
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 C 463 17.4 72.5 956 10 BX973996 BX973996 Forward s  
 C 464 17.4 72.5 964 2 BF785319 BF785319 602111537  
 C 465 17.4 72.5 986 11 CNS06MX1 AL407339 J3 end of  
 C 466 17.4 72.5 1052 9 BZ145377 BZ145377 CH230-413  
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 C 468 17.4 72.5 1338 10 AJ859438 Braggica  
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 C 472 17.4 72.5 59 10 BX651325 Arabidops  
 C 473 17.2 71.7 153 7 CO278281 CO278281 Arabidops  
 C 474 17.2 71.7 158 7 CK680393 ZF101-P00  
 C 475 17.2 71.7 193 10 CG788074 CG788074 ZMMB021  
 C 476 17.2 71.7 197 9 AQ480608 RPIC1-11-2  
 C 477 17.2 71.7 205 1 AV287083 AV287083  
 C 478 17.2 71.7 253 1 AV289746 AV289746  
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 C 480 17.2 71.7 272 10 AG205001 AG205001 Pan trogl  
 C 481 17.2 71.7 285 7 CO300161 EK177514  
 C 482 17.2 71.7 297 9 BZ607735 BZ607735 WHADC35TR  
 C 483 17.2 71.7 300 2 BB281901 BB281901  
 C 484 17.2 71.7 309 1 AI521789 AI521789  
 C 485 17.2 71.7 329 7 CN931979 CN931979 000428AFB  
 C 486 17.2 71.7 329 8 CX349565 cclwtb10  
 C 487 17.2 71.7 330 9 AZ879450 RPIC1-23-1  
 C 488 17.2 71.7 332 7 CO372868 CO372868 tab60a01.  
 C 489 17.2 71.7 336 3 BP507844 BP507844  
 C 490 17.2 71.7 352 7 CO271685 CO271685 EK104261.  
 C 491 17.2 71.7 355 7 CN491214 CN491214 Mdfw2010a  
 C 492 17.2 71.7 355 7 CN901605 CN901605 010829ABC  
 C 493 17.2 71.7 357 8 DN848188 KECB34-11  
 C 494 17.2 71.7 363 8 DN170574 DN170574 LH Ea07F  
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 C 497 17.2 71.7 377 8 R06741 R06741 yf11a06.81  
 C 498 17.2 71.7 378 1 AJ668557 AJ668557  
 C 499 17.2 71.7 383 1 AJ660851 AJ660851  
 C 500 17.2 71.7 386 3 BM116468 BM116468 L0836602-

## ALIGNMENTS

## RESULT 1

CA721426

LOCUS

## DEFINITION

wdk9n.pk001.13 wdk9n Triticum aestivum cDNA clone wdk9n.pk001.13-5'

end, mRNA sequence.

CA721426

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

485 bp mRNA linear EST 26-NOV-2002  
 wdk9n.pk001.13 wdk9n Triticum aestivum cDNA clone wdk9n.pk001.13-5'  
 end, mRNA sequence.  
 CA721426  
 CA721426.1 GI:25443206  
 EST.  
 Triticum aestivum (bread wheat)  
 Triticum aestivum  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Poaceae; Triticeae; Triticum.  
 1 (bases 1 to 485)  
 Tingey,S.V., Powell,W., Wolters,P., Dolan,M., Hainey,C., Yuan,Z.,  
 Miao,G., Caraher,N. and Hanafey,M.K.  
 DuPont Wheat cDNA Sequence  
 Unpublished (2002)  
 Contact: Scott V. Tingey  
 Crop Genetics  
 E. I. DuPont de Nemours and Company  
 1 Innovation Way, P.O. Box 6104, Newark, DE 19714-6104, USA  
 Tel: 302-631-2602  
 Fax: 302-631-2607  
 Email: Scott.V.Tingey@USA.dupont.com  
 Seq primer: M13  
 Location/Qualifiers  
 source 1. .485



GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 203.077 Seconds  
(without alignments)  
787.645 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24

Sequence: 1 gcacatccctacaaagagaagat 24

Scoring table: IDENTITY\_NUC  
Gapop 10.0, Gapext 1.0

Searched: 4996997 seqs, 3332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 500 summaries

Database :

N\_Geneseq\_21:\*

- 1: Geneseq1980s:\*
- 2: Geneseq1990s:\*
- 3: Geneseq2000s:\*
- 4: Geneseq2001as:\*
- 5: Geneseq2001bs:\*
- 6: Geneseq2002as:\*
- 7: Geneseq2002bs:\*
- 8: Geneseq2003as:\*
- 9: Geneseq2003bs:\*
- 10: Geneseq2003cs:\*
- 11: Geneseq2003ds:\*
- 12: Geneseq2004as:\*
- 13: Geneseq2004bs:\*
- 14: Geneseq2005s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	18.8	78.3	1995	13	AD084134 Plant full
c 2	18.2	75.8	43	10	AD72666 PCR prime
c 3	18.2	75.8	666	11	ACN90351 Breast ca
c 4	18.2	75.8	677	4	AAL20420 Human bre
c 5	18.2	75.8	711	4	AAL11522 Human bre
c 6	18.2	75.8	840	11	ACN91723 Breast ca
c 7	18.2	75.8	2817	10	ADBS3631 Primary r
c 8	17.8	74.2	353	9	ACD44885 Human sig
c 9	17.8	74.2	716	6	ABS76965 Frog embr
c 10	17.8	74.2	1863	9	ADA02806 Human ITK
c 11	17.8	74.2	1863	10	ADB72544 Human ITK
c 12	17.8	74.2	1863	10	ADC85286 Human ITK
c 13	17.8	74.2	1863	12	ADM74401 Human car
c 14	17.8	74.2	1863	14	ADVA43391 Human psy
c 15	17.8	74.2	2844	6	ABI195769 Mouse isc
c 16	17.8	74.2	4366	9	ADA02805 Human ITK
c 17	17.8	74.2	4366	10	ADB72543 Human ITK
c 18	17.8	74.2	4366	10	ADC85285 Human ITK
c 19	17.8	74.2	4366	10	ADE40424 Human T-c

20	17.8	74.2	4366	12	ADM74400 Human car
21	17.8	74.2	4366	14	ADY16567 DNA encod
22	17.8	74.2	4839	4	ABL114642 Drosophil
23	17.8	74.2	4883	14	ABE28778 Plaemid p
24	17.8	74.2	6381	6	ABV94054 Breast ca
25	17.8	74.2	6381	14	ADY20562 DNA encod
26	17.8	74.2	6383	6	ABL63135 Breast ca
27	17.8	74.2	6383	10	ADD89974 Human can
28	17.8	74.2	6383	12	ADP12829 Reference
29	17.8	74.2	6401	5	AAS80103 DNA encod
c 30	17.8	74.2	42347	12	ADP84152 Human CAL
31	17.8	74.2	92562	10	ADC85284 Human ITK
32	17.8	74.2	92563	9	ADA02804 Human ITK
33	17.8	74.2	92563	10	ADB72542 Human ITK
34	17.8	74.2	92563	12	ADM74399 Human car
c 35	17.8	74.2	337344	13	ABD32715 Human can
36	17.8	73.3	597	12	ACH71611 Human gen
c 37	17.4	72.5	299	8	ABZ55784 Aspergill
38	17.4	72.5	192992	13	ABD32866 Mouse can
39	17.2	71.7	91	4	AAI25152 Probe #15
40	17.2	71.7	91	4	ABA70902 Human foe
41	17.2	71.7	91	4	AAI51087 Probe #19
42	17.2	71.7	91	4	ABA37345 Probe #15
43	17.2	71.7	91	4	AAK45132 Human bon
44	17.2	71.7	91	4	AAK19171 Human bra
45	17.2	71.7	91	4	ABS44803 Human liv
46	17.2	71.7	91	6	ABS19382 Human gen
47	17.2	71.7	242	3	AAK14239 Human sec
c 48	17.2	71.7	448	4	AAI11893 Probe #18
c 49	17.2	71.7	448	4	ABA53593 Human foe
c 50	17.2	71.7	448	4	AAI33220 Probe #19
c 51	17.2	71.7	448	4	ABA43174 Human bre
c 52	17.2	71.7	448	4	ABA23348 Probe #18
c 53	17.2	71.7	448	4	AAK27318 Human bon
c 54	17.2	71.7	448	4	AAK01860 Human bra
c 55	17.2	71.7	448	5	AAI01830 Probe #18
c 56	17.2	71.7	448	6	ABS01839 Human gen
c 57	17.2	71.7	483	4	AAI15934 Probe #58
58	17.2	71.7	483	4	ABA58305 Human foe
59	17.2	71.7	483	4	AAI37927 Probe #66
60	17.2	71.7	483	4	ABA27439 Probe #59
61	17.2	71.7	483	4	AAK32074 Human bon
62	17.2	71.7	483	4	AAK06402 Human bra
63	17.2	71.7	483	4	ABS31769 Human liv
64	17.2	71.7	483	6	ABS06841 Human gen
65	17.2	71.7	483	6	ABN65368 Human can
c 66	17.2	71.7	556	6	AAK66963 Human imm
c 67	17.2	71.7	581	4	ACN87709 Breast ca
c 68	17.2	71.7	615	11	ACN87709 Breast ca
c 69	17.2	71.7	648	8	ACA24524 Prokaryot
70	17.2	71.7	1048	4	AAK79700 Human imm
71	17.2	71.7	1049	4	AAK80426 Human imm
72	17.2	71.7	1051	4	AAK80025 Human imm
73	17.2	71.7	1051	4	AAK85923 Human imm
74	17.2	71.7	1051	4	AAK79693 Human imm
75	17.2	71.7	1179	11	ACN90172 Breast ca
c 76	17.2	71.7	1192	8	ABX34476 Human mdd
c 77	17.2	71.7	1197	4	AAK77110 Human imm
c 78	17.2	71.7	1200	4	AAK77109 Human imm
79	17.2	71.7	1296	4	ABLI11827 Drosophil
80	17.2	71.7	1453	4	AAK94882 Human ful
81	17.2	71.7	1453	12	ADL32047 Full leng
82	17.2	71.7	2104	14	AD212543 Human can
83	17.2	71.7	2232	1	AAW70598 cDNA enco
84	17.2	71.7	2306	13	ADQ85191 Human tum
85	17.2	71.7	2308	9	ADA02607 Human IL2
86	17.2	71.7	2308	10	ADB72345 Human IL2
87	17.2	71.7	2308	10	ADD25610 Binding d
88	17.2	71.7	2308	10	ADSE5855 Human DNA
89	17.2	71.7	2308	12	ADU82822 Human PRO
90	17.2	71.7	2308	12	ADP10426 Reference
91	17.2	71.7	2308	12	ADQ19555 Human PRO
92	17.2	71.7	2308	13	ADP54612 Human PRO

93	17.2	71.7	2320	14	ADZ12545	Adz12545 Human can	166	16.6	69.2	206	12	ADJ12716	Adj12716 DNA fragm
94	17.2	71.7	2335	3	AA35229	Aa35229 Human ade	167	16.6	69.2	210	2	AA21164	Aa21164 Human gen
95	17.2	71.7	2335	3	AA251781	Aa251781 CD25 T ce	168	16.6	69.2	300	3	AAA01376	Aa01376 Human col
96	17.2	71.7	2335	3	AA21351	Aa21351 Human low	169	16.6	69.2	308	5	ABV50516	Abv50516 Human pro
97	17.2	71.7	2335	10	AD64474	Ad64474 Human inh	c 170	16.6	69.2	313	4	AA24369	Aa24369 Human ova
98	17.2	71.7	2335	10	AB297045	Ab297045 Human nuc	c 171	16.6	69.2	313	5	AAH82960	AaH82960 Human ova
99	17.2	71.7	2335	11	AD131986	Ad131986 Human CDN	c 172	16.6	69.2	319	6	ABK70505	Abk70505 Human 85p
100	17.2	71.7	2335	11	ABD20894	Abd20894 Human pul	c 173	16.6	69.2	350	5	AAH94219	AaH94219 Human foe
101	17.2	71.7	2335	13	ABD84053	Abd84053 Human lym	c 174	16.6	69.2	350	5	AAH94219	AaH94219 Human foe
102	17.2	71.7	2335	14	ADY86613	Ady86613 Human int	c 175	16.6	69.2	378	6	ABN75820	Abn75820 Human ORF
103	17.2	71.7	2352	11	ADM02738	Adm02738 Human CDN	c 176	16.6	69.2	383	5	AAF66160	Aaf66160 Novel hum
c 104	17.2	71.7	4336	4	ABL11826	Ab111826 Drosophila	c 177	16.6	69.2	397	8	ABX37467	Abx37467 Bovine ES
c 105	17.2	71.7	5652	2	AAx99575	Aax99575 Nucloeph a	c 178	16.6	69.2	398	8	ABX37008	Abx37008 Bovine ES
106	17.2	71.7	7482	4	AAK66961	Aak66961 Human imm	c 179	16.6	69.2	417	4	AAI82978	Aai82978 Human pol
107	17.2	71.7	7482	10	ABZ67464	Abz67464 Human sec	c 180	16.6	69.2	422	12	ADJ75817	Adj75817 Marker ge
108	17.2	71.7	8321	8	ADA98848	Ada98848 Human sec	c 181	16.6	69.2	425	9	ACH17731	Ach17731 Human adu
109	17.2	71.7	8321	8	ADA44471	Ada44471 Human sec	c 182	16.6	69.2	429	8	ABX35722	Abx35722 Bovine ES
110	17.2	71.7	8321	10	ADC20851	Adc20851 Human sec	c 183	16.6	69.2	432	13	ADU14151	Adu14151 Solid tum
111	17.2	71.7	8321	10	ADF10961	Adf10961 Human sec	c 184	16.6	69.2	441	3	AAA43512	Aaa43512 Mouse sec
112	17.2	71.7	9456	4	AAI198976	Aai198976 Human exc	c 185	16.6	69.2	480	6	ABL78473	Ab178473 Human ova
113	17.2	71.7	9456	5	AAI163326	Aai163326 Human kid	c 186	16.6	69.2	484	14	ACL56929	Acl56929 Human col
114	17.2	71.7	13813	4	AAK89790	Aak89790 Human dig	c 187	16.6	69.2	512	14	ACL62217	Acl62217 Human col
115	17.2	71.7	16146	4	AAK84529	Aak84529 Human imm	c 188	16.6	69.2	584	4	AAH05707	Aah05707 Human CDN
116	17.2	71.7	16146	8	ADA98945	Ada98945 Human sec	c 189	16.6	69.2	584	10	ADD35114	Add35114 Mouse mit
117	17.2	71.7	16146	8	ADA44551	Ada44551 Human sec	c 190	16.6	69.2	586	5	ABV59305	Abv59305 Human pro
118	17.2	71.7	16146	10	ADC20980	Adc20980 Human sec	c 191	16.6	69.2	615	10	ADC93303	Adc93303 E. faeciu
119	17.2	71.7	16146	10	ADF11004	Adf11004 Human sec	c 192	16.6	69.2	623	3	AAF22360	Aaf22360 Human sec
120	17.2	71.7	16146	10	ABT17011	Abt17011 Human sec	c 193	16.6	69.2	623	8	ADA98111	Ada98111 Human sec
121	17.2	71.7	16146	10	ABZ68089	Abz68089 Human sec	c 194	16.6	69.2	623	8	ADA43979	Ada43979 Human sec
122	17.2	71.7	17944	3	AAA35236	Aaa35236 Human ade	c 195	16.6	69.2	623	10	ADC20267	Adc20267 Human sec
123	17.2	71.7	17844	3	AAF21358	Aaf21358 Human low	c 196	16.6	69.2	623	10	ADF10654	Adf10654 Human sec
124	17.2	71.7	17844	10	ABZ97052	Abz97052 Human nuc	c 197	16.6	69.2	666	4	AA24114	Aa24114 Human ova
125	17.2	71.7	17844	11	ABD20901	Abd20901 Human pul	c 198	16.6	69.2	698	5	AAH82689	Aah82689 Human ova
126	17.2	71.7	35586	12	ADO34038	Ado34038 Human CLA	c 199	16.6	69.2	770	6	ABZ16909	Abz16909 Arabidops
c 127	17.2	71.7	40050	9	ADA02585	Ada02585 Mouse ics	c 200	16.6	69.2	774	4	AAI195016	Aai195016 Human neu
c 128	17.2	71.7	40050	10	ADB72323	Adb72323 Mouse ics	c 201	16.6	69.2	828	2	AAI67928	Aai67928 H. pylori
c 129	17.2	71.7	40050	10	ADE95833	Ade95833 Mouse ics	c 202	16.6	69.2	835	8	ADA98911	Ada98911 Human sec
c 130	17.2	71.7	43411	6	AEQ88169	Aeq88169 Human ost	c 203	16.6	69.2	835	8	ADA44517	Ada44517 Human sec
c 131	17.2	71.7	5626	13	AAZ33496	Aaz33496 Human can	c 204	16.6	69.2	835	10	ADC20947	Adc20947 Human sec
c 132	17.2	71.7	65666	3	AA533450	Aa533450 Human thi	c 205	16.6	69.2	835	10	ADF10979	Adf10979 Human sec
c 133	17.2	71.7	70251	9	ADA02606	Ada02606 Human IL2	c 206	16.6	69.2	875	5	ADL63346	Adl63346 Human ova
c 134	17.2	71.7	70251	10	ADB72344	Adb72344 Human IL2	c 207	16.6	69.2	915	4	AAK85012	Aak85012 Human imm
c 135	17.2	71.7	70251	10	ADE95854	Ade95854 Human IL2	c 208	16.6	69.2	952	4	AAH34907	Aah34907 Human col
c 136	17.2	71.7	70271	14	ADZ12540	Adz12540 Human can	c 209	16.6	69.2	1076	4	AAK74050	Aak74050 Human imm
c 137	17.2	71.7	70665	6	ABT10716	Abt10716 Human bre	c 210	16.6	69.2	1077	4	AAK74051	Aak74051 Human imm
c 138	17.2	71.7	70665	11	ADN95672	Adn95672 Human BEC	c 211	16.6	69.2	1143	6	ABK89128	Abk89128 cDNA enco
c 139	17.2	71.7	80251	4	ABL16442	Ab116442 Drosophila	c 212	16.6	69.2	1143	6	ABK89128	Abk89128 cDNA enco
c 140	17.2	71.7	80251	4	ABL16442	Ab116442 Drosophila	c 213	16.6	69.2	1157	13	ADR65546	Adr65546 Cotton cd
c 141	17.2	71.7	80275	12	ADQ97310	Adq97310 Mouse can	c 214	16.6	69.2	1158	10	ADK11359	Adk11359 Human cdk
c 142	17.2	71.7	98948	13	ABD33256	Abd33256 Human can	c 215	16.6	69.2	1188	4	AAI61165	Aai61165 Human pol
c 143	17.2	71.7	110000	11	ACN43998_5	Continuation (6 of	c 216	16.6	69.2	1203	10	ADB47377	Adb47377 Human CDN
c 144	17.2	71.7	110000	11	ACN45090_1	Continuation (2 of	c 217	16.6	69.2	1203	12	ADI61732	Adi61732 Human CDN
c 145	17.2	71.7	129042	11	ACN44674	Acn44674 Human gen	c 218	16.6	69.2	1203	14	AEA43897	Aea43897 Human CDN
c 146	17.2	71.7	185548	13	ADV34986	Adv34986 Murine cd	c 219	16.6	69.2	1231	12	ADQ86504	Adq86504 Human tum
c 147	17.2	71.7	219715	13	ABD32692	Abd32692 Mouse can	c 220	16.6	69.2	1242	6	ABT11396	Abt11396 Yeast sel
c 148	17.2	71.7	295096	11	ACN44068	Acn44068 Mouse gen	c 221	16.6	69.2	1257	8	ACT23347	Act23347 Prokaryot
c 149	16.8	70.0	335	6	ABK64429	Abk64429 Human den	c 222	16.6	69.2	1262	6	ABK70506	Abk70506 Human CDN
c 150	16.8	70.0	343	6	ABN79423	Abn79423 Human ORF	c 223	16.6	69.2	1354	12	ADI26062	Adi26062 Human CDN
c 151	16.8	70.0	367	6	ABN79423	Abn79423 Human ORF	c 224	16.6	69.2	1354	12	ADI26062	Adi26062 Human CDN
c 152	16.8	70.0	446	13	ACF86929	Acf86929 Human SIR	c 225	16.6	69.2	1450	14	ADZ62767	Adz62767 Murine MG
c 153	16.8	70.0	498	4	AA24816	Aa24816 Human ova	c 226	16.6	69.2	1467	4	AAI59379	Aai59379 Human pol
c 154	16.8	70.0	498	5	AAH83451	Aah83451 Human ova	c 227	16.6	69.2	1542	12	ADP04092	Adp04092 Human col
c 155	16.8	70.0	556	12	ACH68234	Ach68234 Human gen	c 228	16.6	69.2	1604	5	AA568683	Aa568683 DNA encod
c 156	16.8	70.0	566	10	ADB51758	Abd51758 Primay r	c 229	16.6	69.2	1604	5	AA568683	Aa568683 DNA encod
c 157	16.8	70.0	1752	5	ABA14510	Abal4510 Human ner	c 230	16.6	69.2	1608	10	ADH28931	Adh28931 Human chr
c 158	16.8	70.0	1752	5	ABA14511	Abal4511 Human ner	c 231	16.6	69.2	1608	13	ADR25206	Adr25206 Breast ca
c 159	16.8	70.0	2172	4	ABL10953	Ab110953 Drosophila	c 232	16.6	69.2	1615	13	ABD33099	Abd33099 Murine ca
c 160	16.8	70.0	3001	3	AAH51746	Aah51746 Chromosom	c 233	16.6	69.2	1620	5	AA593473	Aa593473 DNA encod
c 161	16.8	70.0	4578	4	ABLI0952	Ab110952 Chromosom	c 234	16.6	69.2	1627	13	ADP54309	Adp54309 Human PRO
c 162	16.8	70.0	5226	6	AD139470	Adi39470 Arabidops	c 235	16.6	69.2	1627	14	AA501475	Aay14696 Human sec
c 163	16.8	70.0	5874	6	ADI39470	Adi39470 A thalian	c 236	16.6	69.2	1631	4	AA501475	Aay14696 Human sec
c 164	16.8	70.0	215221	11	ACN44754	Acn44754 Human gen	c 237	16.6	69.2	1666	12	ADP04091	Adp04091 Human col
c 165	16.6	69.2	185	14	AE02528	Aeb02528 MicroRNA	c 238	16.6	69.2	1928	12	ADJ75963	Adj75963 Marker ge

c 239	16.6	69.2	1958	12	ADP04093	Adp04093 Human col	312	16.6	69.2	312957	13	ADV15290	Human oet
c 240	16.6	69.2	2058	2	AAT72943	Aat72943 Phaffia c	313	16.6	69.2	312957	14	ABE32365	Human oet
c 241	16.6	69.2	2118	4	AAI86022	AAI86022 Human pol	314	16.6	69.2	312972	13	ADLV1293	Human oet
c 242	16.6	69.2	2334	4	AAH17644	AAH17644 Human cDN	315	16.6	69.2	312972	14	ABE32394	Human gen
c 243	16.6	69.2	2407	13	ACNA1092	Acn1092 Tumour-as	316	16.6	69.2	313001	14	ADZ70075	Human ins
c 244	16.6	69.2	2613	4	AAH18543	Aah18543 Human cDN	317	16.6	69.2	321019	13	ADS36450	Human aut
c 245	16.6	69.2	2676	6	ABG70384	Abg70384 Human bon	318	16.6	69.2	329019	13	ABD32707	Human can
c 246	16.6	69.2	2909	13	ADR24415	Adr24415 Breast ca	c 319	16.6	69.2	337022	12	ADQ59416	Human can
c 247	16.6	69.2	3856	4	AH17850	Aah17850 Human cDN	c 320	16.6	69.2	338780	14	ADZ13691	Human can
c 248	16.6	69.2	3856	10	ADK11416	Adk11416 Human BAB	321	16.4	68.3	707	4	AAK71837	Human imm
c 249	16.6	69.2	3856	11	ADN95286	Adn95286 Human BEC	322	16.4	68.3	708	4	AAK71836	Human imm
c 250	16.6	69.2	3856	12	ADP91370	Adp91370 Human ens	323	16.4	68.3	717	8	ACA28388	Prokaryot
c 251	16.6	69.2	4056	8	ACC72054	Acc72054 BCU0988B	c 324	16.4	68.3	847	4	AAH03971	Human cDN
c 252	16.6	69.2	4056	10	ADK65816	Adk65816 Angiogene	325	16.4	68.3	1201	14	ABE66013	Rice geno
c 253	16.6	69.2	4248	8	ACG72053	Acc72053 BCU0988A	326	16.4	68.3	1764	14	ABE64975	Rice geno
c 254	16.6	69.2	4248	10	ADK65814	Adk65814 Angiogene	327	16.4	68.3	1908	6	ABK73267	Bacillus
c 255	16.6	69.2	4412	10	ADK61413	Adk61413 Human gen	328	16.4	68.3	2647	5	AAH90017	Human bon
c 256	16.6	69.2	4646	4	AAK53599	Aak53599 Human pol	329	16.4	68.3	3044	3	AAZ51276	Human pol
c 257	16.6	69.2	5061	4	AAF33215	Aaf33215 Human sec	330	16.4	68.3	3044	6	AAH01968	Human pol
c 258	16.6	69.2	5061	8	ABZ73663	Abz73663 Secreted	331	16.4	68.3	3044	12	ADJ45528	cDNA enco
c 259	16.6	69.2	5061	10	ADC20302	Adc20302 Human sec	332	16.4	68.3	3944	3	AAZ51275	Human DNA
c 260	16.6	69.2	5061	10	ABT16856	Abt16856 Human sec	333	16.4	68.3	3954	5	AAZ51275	Human DNA
c 261	16.6	69.2	5061	10	ABZ67258	Abz67258 Human sec	334	16.4	68.3	19205	5	AAZ51275	Human DNA
c 262	16.6	69.2	5171	5	AAZ64526	Aaz64526 DNA enco	335	16.4	68.3	28564	10	ADD48832	Human gen
c 263	16.6	69.2	5216	13	ACNA3241	Acn3241 Human dia	336	16.4	68.3	28564	10	ADD47694	Human gen
c 264	16.6	69.2	6071	5	ABA17850	Abal7850 Human ner	c 337	16.4	68.3	109453	13	ABD32728	Mouse can
c 265	16.6	69.2	7200	12	ADG47890	Adg47890 Arabidops	338	16.2	67.5	102	10	ADB75909	Tomato pl
c 266	16.6	69.2	7200	13	ADU47912	Adu47912 Arabidops	c 339	16.2	67.5	121	12	ADK92554	Polynucle
c 267	16.6	69.2	9209	9	ACC72421	Acc72421 Human ova	340	16.2	67.5	287	8	ABZ53951	Aspergill
c 268	16.6	69.2	9909	13	ADR72882	Adr72882 Human ova	341	16.2	67.5	289	5	ABV08369	Human pro
c 269	16.6	69.2	9909	14	ADY67590	Ady67590 Human kal	c 342	16.2	67.5	315	5	ABV60082	Human pro
c 270	16.6	69.2	17947	4	AAK77679	Aak77679 Human imm	c 343	16.2	67.5	322	6	ABV88146	Human col
c 271	16.6	69.2	24977	4	AAK03263	Aal03263 Human rep	344	16.2	67.5	337	6	ABQ86019	Arabidops
c 272	16.6	69.2	24977	4	AAK05788	Aal05788 Human rep	345	16.2	67.5	366	4	AAK32071	Human bon
c 273	16.6	69.2	24977	4	ABL98352	Ab198352 Human tes	346	16.2	67.5	366	4	AAK06399	Human bra
c 274	16.6	69.2	24983	4	AAK05787	Aal05787 Human rep	347	16.2	67.5	366	4	ABE31766	Human liv
c 275	16.6	69.2	24983	4	AAK03262	Aal03262 Human rep	348	16.2	67.5	366	6	ABE06838	Human gen
c 276	16.6	69.2	24983	4	ABL98351	Ab198351 Human tes	c 349	16.2	67.5	408	5	ABV04398	Human pro
c 277	16.6	69.2	26318	11	ACNA4242	Acn4242 Human gen	c 350	16.2	67.5	484	13	ADX48497	Plant ful
c 278	16.6	69.2	27243	14	ABE96520	Aeb96520 Human PRL	351	16.2	67.5	501	6	ABN78042	Human ORP
c 279	16.6	69.2	28320	14	ADZ12935	Adz12935 Human can	352	16.2	67.5	529	5	ABAI2545	Human ner
c 280	16.6	69.2	32249	4	AAK04473	Aak04473 Human can	353	16.2	67.5	535	5	AAE67439	DNA enco
c 281	16.6	69.2	34562	10	ACH01401	Ach01401 Murine BI	c 354	16.2	67.5	537	12	ADG2486	Transcrip
c 282	16.6	69.2	49777	4	AAK75029	Aak75029 Human imm	c 355	16.2	67.5	580	12	ACH79931	Human gen
c 283	16.6	69.2	49777	4	AAK76214	Aak76214 Human imm	c 356	16.2	67.5	704	4	AAK93522	Human cDN
c 284	16.6	69.2	63237	14	ADZ12884	Adz12884 Murine ca	c 357	16.2	67.5	704	4	AAK92257	Human cDN
c 285	16.6	69.2	63502	11	ACNA4028	Acn44028 Mouse gen	c 358	16.2	67.5	704	12	ADL29949	3' end of
c 286	16.6	69.2	65454	12	ADN01773	Adn01773 Human hun	c 359	16.2	67.5	704	12	ADL28684	5' end of
c 287	16.6	69.2	83943	13	ABD32881	Abd32881 Mouse can	c 360	16.2	67.5	756	8	ABZ51436	Aspergill
c 288	16.6	69.2	96594	10	ADE95974	Ade95974 Human SYK	c 361	16.2	67.5	840	6	ABQ69453	Listeria
c 289	16.6	69.2	96595	9	ADA02726	Ada02726 Human SYK	362	16.2	67.5	924	6	ABQ67729	Aspergill
c 290	16.6	69.2	96595	10	ADB72464	Adb72464 Human SYK	363	16.2	67.5	965	14	ABE10666	Altered o
c 291	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 364	16.2	67.5	1011	8	ACA28732	Prokaryot
c 292	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 365	16.2	67.5	1129	5	AAH64832	Human sec
c 293	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 366	16.2	67.5	1142	3	AAH64832	Human sec
c 294	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 367	16.2	67.5	1157	4	AAH64832	Human sec
c 295	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 368	16.2	67.5	1190	8	ADA69688	Rice gene
c 296	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 369	16.2	67.5	1197	13	ADK61460	Plant ful
c 297	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 370	16.2	67.5	1206	13	ADK61460	Plant ful
c 298	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 371	16.2	67.5	1271	14	AEA26858	Stress to
c 299	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 372	16.2	67.5	1302	8	ACA23040	Prokaryot
c 300	16.6	69.2	106373	13	ABD32737	Abd32737 Human can	c 373	16.2	67.5	1366	6	ABD12599	Human PKB
c 301	16.6	69.2	128779	12	ADI37262	Adi37262 Hypermeth	c 374	16.2	67.5	1402	4	AAH12578	Human pro
c 302	16.6	69.2	138627	12	ADQ97183	Adq97183 Human can	c 375	16.2	67.5	1430	3	AAH12578	Human pro
c 303	16.6	69.2	139733	11	ACNA44142	Acn44142 Human gen	c 376	16.2	67.5	1536	11	ACL28722	Rice abio
c 304	16.6	69.2	167932	10	ADL13501	Adl13501 Osteoarth	c 377	16.2	67.5	1538	12	AAK94918	Human ful
c 305	16.6	69.2	174448	11	ACNA3946	Acn3946 Human gen	c 378	16.2	67.5	1538	12	ADL32115	Full leng
c 306	16.6	69.2	194534	12	ADQ97481	Adq97481 Human can	c 379	16.2	67.5	1540	4	AAI58754	Human pol
c 307	16.6	69.2	197140	14	AEA17302	Aea17302 Human GNA	c 380	16.2	67.5	1540	5	ADQ98974	DNA enco
c 308	16.6	69.2	218336	8	ABQ76678	Abq76678 Androgen	c 381	16.2	67.5	1540	9	ADQ98974	DNA enco
c 309	16.6	69.2	219352	13	ABD33098	Abd33098 Murine ca	c 382	16.2	67.5	1622	13	ADK61909	Plant ful
c 310	16.6	69.2	235070	11	ACNA45174	Acn45174 Human gen	c 383	16.2	67.5	1694	12	ADH69513	Opssum d
c 311	16.6	69.2	290547	13	ABD32598	Abd32598 Human can	c 384	16.2	67.5	1808	3	AAH49483	Arabidops

C 385	16.2	67.5	1848	13	ADT15904	Adt15904 Plant cdn
C 386	16.2	67.5	1872	6	ABE90147	Abt90147 Human pol
C 387	16.2	67.5	1929	10	ABZB1309	AbzB1309 Human dru
C 388	16.2	67.5	1999	10	ADCO8466	Adco8466 Rice DNA
C 389	16.2	67.5	2007	8	ADA71791	Ada71791 Rice plant
C 390	16.2	67.5	2020	13	ADT19436	Adt19436 Plant cdn
C 391	16.2	67.5	2081	13	ACN43563	Acn43563 Human dia
C 392	16.2	67.5	2091	13	ACN42188	Acn42188 Human dia
C 393	16.2	67.5	2334	10	ADES3963	Ades3963 Human pro
C 394	16.2	67.5	2493	14	ADW18123	Adw18123 Pinus rad
C 395	16.2	67.5	2551	13	ADX28139	Adx28139 Plant ful
C 396	16.2	67.5	2572	14	AEb26850	Aeb26850 Pinus rad
C 397	16.2	67.5	2896	13	ADU82627	Adu82627 Human MDD
C 398	16.2	67.5	3244	2	AXA04748	Axa04748 SLC1 gene
C 399	16.2	67.5	4208	12	ADQ23988	Adq23988 Human sof
C 400	16.2	67.5	4510	6	ADQ36752	Adq36752 Mouse PER
C 401	16.2	67.5	5816	6	ABK40011	Abk40011 Human che
C 402	16.2	67.5	7316	6	ABN80241	Abn80241 Human che
C 403	16.2	67.5	9192	4	AS333461	As333461 DNA encod
C 404	16.2	67.5	11222	10	ADB54001	Adb54001 MB genom
C 405	16.2	67.5	24161	4	AKK80711	Akk80711 Human imm
C 406	16.2	67.5	25378	4	AKK80709	Akk80709 Human imm
C 407	16.2	67.5	25715	4	AS333462	As333462 DNA encod
C 408	16.2	67.5	29220	4	AS27653	As27653 DNA encod
C 409	16.2	67.5	29220	4	AS27652	As27652 DNA encod
C 410	16.2	67.5	29220	10	ADB94455	Adb94455 Novel hum
C 411	16.2	67.5	29220	10	ADB94456	Adb94456 Novel hum
C 412	16.2	67.5	32001	13	ADR20458	Adr20458 Human SPR
C 413	16.2	67.5	32572	13	ADS36470	Ads36470 Human aut
C 414	16.2	67.5	41507	9	ADA37416	Ada37416 Human rDN
C 415	16.2	67.5	42998	8	ADA14747	Ada14747 Human rib
C 416	16.2	67.5	42999	8	ABE56532	AbE56532 Invertebr
C 417	16.2	67.5	42999	8	ABX11086	Abx11086 Human rib
C 418	16.2	67.5	42999	10	ADR61411	Adr61411 Human rib
C 419	16.2	67.5	42999	13	ADR43949	Adr43949 Human rib
C 420	16.2	67.5	42999	14	ABE25475	AbE25475 Human rib
C 421	16.2	67.5	51952	2	AAV26084	Aav26084 Tomato pe
C 422	16.2	67.5	85121	14	ADZ13027	Adz13027 Human can
C 423	16.2	67.5	90043	11	ACN44608	Acn44608 Mouse gen
C 424	16.2	67.5	107829	11	ACN44088	Acn44088 Mouse gen
C 425	16.2	67.5	110000	2	ABO69245_08	AbO69245_08
C 426	16.2	67.5	110000	6	ABQ69245_09	AbQ69245_09
C 427	16.2	67.5	110000	6	ABQ67197_08	AbQ67197_08
C 428	16.2	67.5	110000	12	ADO34435_2	AdO34435_2
C 429	16.2	67.5	110000	12	ADO34435_2	AdO34435_2
C 430	16.2	67.5	110000	13	ADQ97050_2	AdQ97050_2
C 431	16.2	67.5	110000	12	ABD32806_0	AbD32806 Human can
C 432	16.2	67.5	110000	14	ADZ13575_0	AdZ13575 Murine ca
C 433	16.2	67.5	110000	14	AEA61169_2	AEa61169_2
C 434	16.2	67.5	113000	9	ABT44365	Abt44365 Partial g
C 435	16.2	67.5	121600	6	ABT10748	Abt10748 Human bre
C 436	16.2	67.5	121600	12	ADQ18307	Adq18307 Human sof
C 437	16.2	67.5	123526	10	ADJ79962	Adj79962 Human gli
C 438	16.2	67.5	138363	13	ABD32624	Abd32624 Human can
C 439	16.2	67.5	145025	11	ACN44548	Acn44548 Mouse gen
C 440	16.2	67.5	158091	12	ADL08119	Adl08119 Human gen
C 441	16.2	67.5	192639	10	ADL13676	Adl13676 Osteoarth
C 442	16.2	67.5	203654	10	ABX16034	Abx16034 Human gen
C 443	16.2	67.5	217409	11	ACN45150	Acn45150 Human gen
C 444	16.2	67.5	224112	13	ABD32600	Abd32600 Mouse can
C 445	16.2	67.5	260027	11	ACN44046	Acn44046 Human gen
C 446	16.2	67.5	289190	13	ABD33143	Abd33143 Murine ca
C 447	16.2	67.5	325791	4	AA343104	Aa343104 Human Oes
C 448	16.2	67.5	344548	11	ACN44070	Acn44070 Human gen
C 449	16.2	66.7	179	4	AA349805	Aa349805 Staphyloc
C 450	16.2	66.7	179	4	AA349823	Aa349823 Staphyloc
C 451	16.2	66.7	179	4	AA350550	Aa350550 Staphyloc
C 452	16.2	66.7	179	8	ACAL17830	Acal17830 Prokaryot
C 453	16.2	66.7	179	8	ACAL17072	Acal17072 Prokaryot
C 454	16.2	66.7	179	8	ACAL17075	Acal17075 Prokaryot
C 455	16.2	66.7	207	4	AA355202	Aa355202 Staphyloc
C 456	16.2	66.7	207	4	AA349135	Aa349135 Staphyloc
C 457	16.2	66.7	207	8	ACAL16346	Acal16346 Prokaryot
C 458	16.2	66.7	217	4	AA349693	Aa349693 Staphyloc
C 459	16.2	66.7	217	8	ACA16896	Aca16896 Prokaryot
C 460	16.2	66.7	311	4	AA307040	Aa307040 DNA encod
C 461	16.2	66.7	325	4	AA328656	Aa328656 Human sec
C 462	16.2	66.7	381	4	AA188501	Aa188501 Human pol
C 463	16.2	66.7	381	4	AA349371	Aa349371 Staphyloc
C 464	16.2	66.7	381	8	ACA16587	Aca16587 Prokaryot
C 465	16.2	66.7	392	8	ACA00456	Aca00456 Human sec
C 466	16.2	66.7	392	2	AA351521	Aa351521 Human sec
C 467	16.2	66.7	396	13	ADU06200	Adu06200 Novel bro
C 468	16.2	66.7	398	5	ABV07089	Abv07089 Human pro
C 469	16.2	66.7	420	9	ACH21899	Ach21899 Human adu
C 470	16.2	66.7	429	4	AA188839	Aa188839 Human pol
C 471	16.2	66.7	429	9	ACH29721	Ach29721 Human tes
C 472	16.2	66.7	450	2	AA314220	Aa314220 H. pylori
C 473	16.2	66.7	475	9	ACH40976	Ach40976 Human foe
C 474	16.2	66.7	550	13	ACN47174	Acn47174 Cotton pr
C 475	16.2	66.7	567	13	ACF91261	Acf91261 Murine HE
C 476	16.2	66.7	667	4	AAF62100	Aaf62100 Murine HE
C 477	16.2	66.7	693	12	ADQ18875	Adq18875 Human sof
C 478	16.2	66.7	924	13	ADU98770	Adu98770 Borrelia
C 479	16.2	66.7	970	10	ADU98770	Adu98770 Borrelia
C 480	16.2	66.7	1084	10	ADE40137	AdE40137 Novel hum
C 481	16.2	66.7	1110	10	ADB56200	AdB56200 Toxicity-
C 482	16.2	66.7	1110	10	ADB50720	AdB50720 Primary r
C 483	16.2	66.7	1111	8	ABX05336	Abx05336 Human nov
C 484	16.2	66.7	1166	10	ADC30467	Adc30467 Human nov
C 485	16.2	66.7	1263	9	ADA10701	Ada10701 Human PHB
C 486	16.2	66.7	1344	13	ADX28017	Adx28017 Plant ful
C 487	16.2	66.7	1368	13	ADG60639	Adg60639 Bacterial
C 488	16.2	66.7	1376	2	AA349955	Aa349955 Human sec
C 489	16.2	66.7	1376	8	ACD18881	AcD18881 Novel hum
C 490	16.2	66.7	1376	12	ADG78272	Adg78272 Human sec
C 491	16.2	66.7	1380	12	ADN60563	Adn60563 Human sec
C 492	16.2	66.7	1380	4	AA122767	Aa122767 Probe #12
C 493	16.2	66.7	1380	4	ABA49931	AbA49931 Human bre
C 494	16.2	66.7	1380	4	ABA34908	AbA34908 Probe #13
C 495	16.2	66.7	1380	5	AA108440	Aa108440 Probe #84
C 496	16.2	66.7	1380	6	AA316032	Aa316032 Human gen
C 497	16.2	66.7	1399	4	AA352144	Aa352144 Staphyloc
C 498	16.2	66.7	1404	8	ACF72621	Acf72621 Staphyloc
C 499	16.2	66.7	1501	3	AA349343	Aa349343 Human sec
C 500	16.2	66.7	1518	3	AAA13963	AaA13963 Dirofilar

## ALIGNMENTS

## RESULT 1

ADO84134/c

ID ADO84134 standard; cDNA; 1995 BP.

XX

AC

XX

DT

XX

DE

XX

KW

KW

KW

KW

XX

XX

OS

XX

PN

XX

PD

XX

XX

Plant full length insert polynucleotide seqid 2854.

plant protectant; plant growth regulant; gene therapy; plant;  
 recombinant DNA construct; physical array; plant breeding marker;  
 cold tolerance; heat tolerance; drought tolerance; herbicide tolerance;  
 extreme osmotic condition; pathogen tolerance; pest tolerance;  
 growth rate; cell cycle pathway; disease resistance;  
 galactamannan production; lignin production; plant growth regulator;  
 yield; plant growth; protein development; seed oil; protein yield;  
 protein content; gene; ss.

Unidentified.

US2004034888-A1.

19-FEB-2004.

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 82.9349 Seconds  
(without alignments)  
514.397 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24

Sequence: 1 gcacatccctacaaagaagaat 24

Scoring table: IDENTITY NUC

Gapop 10\_0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : Issued Patents NA.\*

- 1: /cgn2\_6/ptodata/1/ina/1 COMB.seq.\*
- 2: /cgn2\_6/ptodata/1/ina/5 COMB.seq.\*
- 3: /cgn2\_6/ptodata/1/ina/6A COMB.seq.\*
- 4: /cgn2\_6/ptodata/1/ina/6B COMB.seq.\*
- 5: /cgn2\_6/ptodata/1/ina/H COMB.seq.\*
- 6: /cgn2\_6/ptodata/1/ina/PP COMB.seq.\*
- 7: /cgn2\_6/ptodata/1/ina/RE COMB.seq.\*
- 8: /cgn2\_6/ptodata/1/ina/RE COMB.seq.\*
- 9: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18.4	76.7	144158	3	US-09-949-016-11755
2	18.4	76.7	144158	3	US-09-949-016-12936
3	17.8	74.2	601	3	US-09-949-016-73550
4	17.8	74.2	601	3	US-09-949-016-73551
5	17.8	74.2	2572	3	US-09-949-016-73557
6	17.8	74.2	6381	3	US-09-949-016-7555
7	17.8	74.2	42610	3	US-09-949-016-13882
8	17.8	74.2	76563	3	US-09-949-016-17099
9	17.8	74.2	78269	3	US-09-949-016-12497
10	17.4	72.5	91831	3	US-09-949-016-13694
11	17.2	71.7	242	3	US-09-513-999C-18314
12	17.2	71.7	601	3	US-09-949-016-175637
13	17.2	71.7	601	3	US-09-949-016-204587
14	17.2	71.7	2114	3	US-09-949-016-1960
15	17.2	71.7	2308	3	US-09-949-016-65
16	17.2	71.7	2335	3	US-09-023-655-1312
17	17.2	71.7	5652	3	US-09-601-198-75
18	17.2	71.7	12880	3	US-09-949-016-16733
19	17.2	71.7	54251	3	US-09-949-016-13702
20	17.2	71.7	54252	3	US-09-949-016-11807
21	17.2	71.7	87629	3	US-09-949-016-115262
22	17.2	71.7	87629	3	US-09-949-016-15262
23	17.2	71.7	87629	3	US-09-949-016-15264
24	17.2	71.7	87629	3	US-09-949-016-15265

25	17.2	71.7	87734	3	US-09-949-016-17521	Sequence 17521, A
26	17.2	71.7	113042	3	US-09-949-016-12343	Sequence 12343, A
c 27	17.2	71.7	113042	3	US-09-949-016-15246	Sequence 15246, A
28	17.2	71.7	151088	3	US-09-949-016-16240	Sequence 16240, A
c 29	17.2	71.7	168104	3	US-09-949-016-12026	Sequence 12026, A
c 30	17.2	71.7	168105	3	US-09-949-016-16554	Sequence 16554, A
31	17.2	71.7	300598	3	US-09-949-016-11868	Sequence 11868, A
32	17.2	71.7	302604	3	US-09-949-016-14589	Sequence 14589, A
33	17.2	71.7	302604	3	US-09-949-016-14589	Sequence 14589, A
34	17.2	71.7	308362	3	US-09-949-016-17119	Sequence 17119, A
c 35	16.8	70.0	601	3	US-09-949-016-78490	Sequence 78490, A
36	16.8	70.0	601	3	US-09-949-016-189381	Sequence 189381, A
37	16.8	70.0	601	3	US-09-949-002-3170	Sequence 3170, Ap
38	16.8	70.0	601	3	US-09-949-002-3171	Sequence 3171, Ap
39	16.8	70.0	601	3	US-09-949-002-3172	Sequence 3172, Ap
40	16.8	70.0	601	3	US-09-949-002-3173	Sequence 3173, Ap
41	16.8	70.0	601	3	US-09-949-002-8069	Sequence 8069, Ap
42	16.8	70.0	601	3	US-09-949-002-8070	Sequence 8070, Ap
43	16.8	70.0	601	3	US-09-949-002-8071	Sequence 8071, Ap
44	16.8	70.0	601	3	US-09-949-002-8072	Sequence 8072, Ap
c 45	16.8	70.0	3001	3	US-09-539-333D-158	Sequence 158, App
c 46	16.8	70.0	92074	3	US-09-949-016-17163	Sequence 17163, A
47	16.8	70.0	267482	3	US-09-949-002-659	Sequence 659, App
48	16.8	70.0	267505	3	US-09-949-002-783	Sequence 783, App
c 49	16.6	69.2	601	3	US-09-949-016-44304	Sequence 44304, A
c 50	16.6	69.2	601	3	US-09-949-016-44305	Sequence 44305, A
c 51	16.6	69.2	601	3	US-09-949-016-137449	Sequence 137449, A
c 52	16.6	69.2	601	3	US-09-949-016-17854	Sequence 17854, A
c 53	16.6	69.2	601	3	US-09-949-016-147855	Sequence 147855, A
54	16.6	69.2	615	3	US-09-107-532A-2930	Sequence 2930, Ap
c 55	16.6	69.2	1143	3	US-08-969-987-6	Sequence 6, Appl
c 56	16.6	69.2	1203	3	US-09-566-921-100	Sequence 100, App
c 57	16.6	69.2	1609	3	US-09-949-016-3316	Sequence 3316, Ap
c 58	16.6	69.2	2058	3	US-09-091-725-16	Sequence 16, Appl
c 59	16.6	69.2	2377	2	US-08-967-101-26	Sequence 26, Appl
c 60	16.6	69.2	2377	2	US-08-592-541-26	Sequence 26, Appl
c 61	16.6	69.2	2377	2	US-09-124-698-26	Sequence 26, Appl
c 62	16.6	69.2	2377	3	US-09-127-480-26	Sequence 26, Appl
c 63	16.6	69.2	2377	3	US-08-496-841C-26	Sequence 26, Appl
c 64	16.6	69.2	2377	3	US-09-124-523-26	Sequence 26, Appl
c 65	16.6	69.2	2377	3	US-09-636-796A-26	Sequence 26, Appl
c 66	16.6	69.2	2377	3	US-08-431-048F-26	Sequence 26, Appl
c 67	16.6	69.2	2676	3	US-09-484-970B-41	Sequence 41, Appl
c 68	16.6	69.2	4056	3	US-10-164-595-55	Sequence 55, Appl
c 69	16.6	69.2	4248	3	US-10-164-595-53	Sequence 53, Appl
c 70	16.6	69.2	7200	3	US-09-853-450-48	Sequence 48, Appl
71	16.6	69.2	10321	3	US-09-949-016-13587	Sequence 13587, A
c 72	16.6	69.2	15148	3	US-09-949-016-15058	Sequence 15058, A
73	16.6	69.2	43690	3	US-09-949-016-13904	Sequence 13904, A
74	16.6	69.2	65300	3	US-09-949-016-16813	Sequence 16813, A
75	16.6	69.2	68702	3	US-09-949-016-16328	Sequence 16328, A
c 76	16.6	69.2	76472	3	US-09-949-016-15896	Sequence 15896, A
c 77	16.6	69.2	81701	3	US-09-949-016-14891	Sequence 14891, A
c 78	16.6	69.2	92276	3	US-09-949-016-12166	Sequence 12166, A
c 79	16.6	69.2	94855	3	US-09-949-016-12264	Sequence 12264, A
c 80	16.6	69.2	96739	3	US-09-949-016-15606	Sequence 15606, A
c 81	16.6	69.2	104428	3	US-09-949-016-12737	Sequence 12737, A
c 82	16.6	69.2	104429	3	US-09-949-016-13814	Sequence 13814, A
c 83	16.6	69.2	123513	3	US-09-949-016-15794	Sequence 15794, A
c 84	16.6	69.2	128779	3	US-09-497-855A-38	Sequence 38, Appl
c 85	16.6	69.2	135030	3	US-09-949-016-14896	Sequence 14896, A
c 86	16.6	69.2	137394	3	US-09-949-016-13872	Sequence 13872, A
c 87	16.6	69.2	137743	3	US-09-949-016-12178	Sequence 12178, A
c 88	16.6	69.2	154023	3	US-09-949-016-17057	Sequence 17057, A
c 89	16.6	69.2	168394	3	US-09-949-016-13002	Sequence 13002, A
c 90	16.6	69.2	276687	3	US-09-949-016-13840	Sequence 13840, A
91	16.6	69.2	312957	3	US-09-949-001-31	Sequence 31, Appl
92	16.6	69.2	32972	3	US-09-949-001-34	Sequence 34, Appl
c 93	16.6	69.2	321022	3	US-09-949-016-11852	Sequence 11852, A
c 94	16.6	69.2	321022	3	US-09-949-016-14166	Sequence 14166, A
c 95	16.6	69.2	392000	3	US-10-027-993-11	Sequence 11, Appl
c 96	16.4	68.3	601	3	US-09-949-016-156249	Sequence 156249, A
c 97	16.4	68.3	601	3	US-09-949-016-156250	Sequence 156250, A

98	16.4	68.3	52992	3	US-09-949-016-16105	Sequence 16105, A	171
c 99	16.4	68.3	183112	3	US-09-949-016-11184	Sequence 14184, A	172
c 100	16.2	67.5	204	3	US-09-248-796A-7560	Sequence 7560, Ap	173
c 101	16.2	67.5	426	3	US-09-248-796A-2433	Sequence 2433, Ap	174
c 102	16.2	67.5	601	3	US-09-949-016-60657	Sequence 60657, A	c 175
c 103	16.2	67.5	601	3	US-09-949-016-87695	Sequence 87695, A	c 176
c 104	16.2	67.5	601	3	US-09-949-016-135276	Sequence 135276, A	c 177
c 105	16.2	67.5	601	3	US-09-949-016-135276	Sequence 135276, A	c 178
c 106	16.2	67.5	601	3	US-09-949-016-144892	Sequence 144892, A	c 179
c 107	16.2	67.5	601	3	US-09-949-016-144892	Sequence 144892, A	c 180
c 108	16.2	67.5	601	3	US-09-949-016-162775	Sequence 162775, A	c 181
c 109	16.2	67.5	601	3	US-09-949-016-162776	Sequence 162776, A	c 182
c 110	16.2	67.5	601	3	US-09-949-016-168166	Sequence 168166, A	c 183
c 111	16.2	67.5	601	3	US-09-949-016-178216	Sequence 178216, A	c 184
c 112	16.2	67.5	601	3	US-09-949-016-178217	Sequence 178217, A	c 185
c 113	16.2	67.5	1540	3	US-09-620-312D-644	Sequence 644, App	c 186
c 114	16.2	67.5	3244	2	US-08-321-670-1	Sequence 1, Appl	c 187
c 115	16.2	67.5	9634	3	US-09-949-016-16742	Sequence 16742, A	c 188
c 116	16.2	67.5	13985	3	US-09-949-016-15640	Sequence 15640, A	c 189
c 117	16.2	67.5	32655	3	US-09-949-016-14098	Sequence 14098, A	c 190
c 118	16.2	67.5	52667	3	US-08-947-823-1	Sequence 1, Appl	c 191
c 119	16.2	67.5	52667	3	US-09-949-016-12019	Sequence 12019, A	c 192
c 120	16.2	67.5	72549	3	US-09-949-016-16477	Sequence 16477, A	c 193
c 121	16.2	67.5	83178	3	US-09-949-016-14606	Sequence 14606, A	c 194
c 122	16.2	67.5	85122	3	US-09-949-016-14693	Sequence 14693, A	c 195
c 123	16.2	67.5	107421	3	US-09-949-016-15532	Sequence 15532, A	c 196
c 124	16.2	67.5	119214	3	US-09-949-016-12507	Sequence 12507, A	c 197
c 125	16.2	67.5	140925	3	US-09-949-016-11777	Sequence 11777, A	c 198
c 126	16.2	67.5	140982	3	US-09-949-016-16295	Sequence 16295, A	c 199
c 127	16.2	67.5	177251	3	US-09-949-016-15941	Sequence 15941, A	c 200
c 128	16.2	67.5	194315	3	US-09-949-016-15584	Sequence 15584, A	c 201
c 129	16.2	67.5	198942	3	US-09-949-016-13209	Sequence 13209, A	c 202
c 130	16.2	67.5	283538	3	US-09-949-016-13506	Sequence 13506, A	c 203
c 131	16.2	67.5	325791	3	US-09-768-185A-1	Sequence 1, Appl	c 204
c 132	16.2	67.5	670689	3	US-09-949-016-12505	Sequence 12505, A	c 205
c 133	16.2	67.5	670690	3	US-09-949-016-14207	Sequence 14207, A	c 206
c 134	16	66.7	316	3	US-09-513-999C-32731	Sequence 32731, A	c 207
c 135	16	66.7	392	3	US-09-513-999C-454	Sequence 454, App	c 208
c 136	16	66.7	601	3	US-09-949-016-64756	Sequence 64756, A	c 209
c 137	16	66.7	601	3	US-09-949-016-195899	Sequence 195899, A	c 210
c 138	16	66.7	1518	2	US-08-929-501-4	Sequence 4, Appl	c 211
c 139	16	66.7	1518	2	US-08-929-501-5	Sequence 5, Appl	c 212
c 140	16	66.7	1518	3	US-09-140-177-4	Sequence 4, Appl	c 213
c 141	16	66.7	1518	3	US-09-140-177-5	Sequence 5, Appl	c 214
c 142	16	66.7	1518	3	US-09-397-979-1	Sequence 1, Appl	c 215
c 143	16	66.7	1518	3	US-09-397-979-5	Sequence 5, Appl	c 216
c 144	16	66.7	1753	2	US-08-929-501-1	Sequence 1, Appl	c 217
c 145	16	66.7	1753	2	US-08-929-501-3	Sequence 3, Appl	c 218
c 146	16	66.7	1753	3	US-09-140-177-3	Sequence 1, Appl	c 219
c 147	16	66.7	1753	3	US-09-140-177-3	Sequence 3, Appl	c 220
c 148	16	66.7	1753	3	US-09-397-979-1	Sequence 1, Appl	c 221
c 149	16	66.7	1753	3	US-09-397-979-3	Sequence 3, Appl	c 222
c 150	16	66.7	1763	3	US-09-348-443-1	Sequence 1, Appl	c 223
c 151	16	66.7	1770	2	US-08-929-501-11	Sequence 11, Appl	c 224
c 152	16	66.7	1770	2	US-08-929-501-13	Sequence 13, Appl	c 225
c 153	16	66.7	1770	3	US-09-140-177-11	Sequence 11, Appl	c 226
c 154	16	66.7	1770	3	US-09-140-177-13	Sequence 13, Appl	c 227
c 155	16	66.7	1770	3	US-09-397-979-11	Sequence 11, Appl	c 228
c 156	16	66.7	1770	3	US-09-397-979-13	Sequence 13, Appl	c 229
c 157	16	66.7	2073	2	US-08-929-501-25	Sequence 25, Appl	c 230
c 158	16	66.7	2073	2	US-08-929-501-26	Sequence 26, Appl	c 231
c 159	16	66.7	2073	3	US-09-140-177-26	Sequence 26, Appl	c 232
c 160	16	66.7	2073	3	US-09-140-177-26	Sequence 26, Appl	c 233
c 161	16	66.7	2073	3	US-09-397-979-25	Sequence 25, Appl	c 234
c 162	16	66.7	2073	3	US-09-397-979-26	Sequence 26, Appl	c 235
c 163	16	66.7	4324	3	US-09-958-021-1	Sequence 1, Appl	c 236
c 164	16	66.7	5279	3	US-08-958-021-5	Sequence 5, Appl	c 237
c 165	16	66.7	6882	3	US-09-949-016-4205	Sequence 4205, Ap	c 238
c 166	16	66.7	14237	3	US-09-949-016-12931	Sequence 12931, A	c 239
c 167	16	66.7	14721	3	US-09-949-016-13507	Sequence 13507, A	c 240
c 168	16	66.7	16592	3	US-08-956-1718-53	Sequence 53, Appl	c 241
c 169	16	66.7	16592	3	US-08-781-986A-53	Sequence 53, Appl	c 242
c 170	16	66.7	39318	3	US-09-949-016-13798	Sequence 13798, A	c 243

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c 246	15.6	65.0	601	3	US-09-949-016-20676	Sequence 20676, A	319	15.6	65.0	601	3	US-09-949-002-6596	Sequence 6596, Ap
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c 251	15.6	65.0	601	3	US-09-949-016-38146	Sequence 38146, A	324	15.6	65.0	601	3	US-09-949-002-6660	Sequence 6660, Ap
c 252	15.6	65.0	601	3	US-09-949-016-38147	Sequence 38147, A	325	15.6	65.0	601	3	US-09-949-002-6668	Sequence 6668, Ap
c 253	15.6	65.0	601	3	US-09-949-016-38148	Sequence 38148, A	326	15.6	65.0	601	3	US-09-949-002-6690	Sequence 6690, Ap
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c 263	15.6	65.0	601	3	US-09-949-016-68345	Sequence 68345, A	c 335	15.6	65.0	601	3	US-09-949-002-8156	Sequence 8156, Ap
c 264	15.6	65.0	601	3	US-09-949-016-68345	Sequence 68345, A	c 336	15.6	65.0	601	3	US-09-949-002-8157	Sequence 8157, Ap
c 265	15.6	65.0	601	3	US-09-949-016-76491	Sequence 76491, A	c 337	15.6	65.0	601	3	US-09-949-002-8157	Sequence 8157, Ap
c 266	15.6	65.0	601	3	US-09-949-016-76492	Sequence 76492, A	338	15.6	65.0	873	3	US-09-134-000C-2297	Sequence 2297, Ap
c 267	15.6	65.0	601	3	US-09-949-016-77853	Sequence 77853, A	c 339	15.6	65.0	874	2	US-08-691-071-2	Sequence 2, Appli
c 268	15.6	65.0	601	3	US-09-949-016-77854	Sequence 77854, A	c 340	15.6	65.0	874	2	US-08-843-370-2	Sequence 2, Appli
c 269	15.6	65.0	601	3	US-09-949-016-84361	Sequence 84361, A	c 341	15.6	65.0	1171	3	US-08-755-587-33	Sequence 33, Appli
c 270	15.6	65.0	601	3	US-09-949-016-92283	Sequence 92283, A	342	15.6	65.0	1187	3	US-10-363-937-18	Sequence 18, Appli
c 271	15.6	65.0	601	3	US-09-949-016-102977	Sequence 102977, A	343	15.6	65.0	2152	3	US-09-949-016-2842	Sequence 2842, Ap
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c 273	15.6	65.0	601	3	US-09-949-016-102979	Sequence 102979, A	c 345	15.6	65.0	2288	3	US-10-012-542-53	Sequence 53, Appli
c 274	15.6	65.0	601	3	US-09-949-016-135509	Sequence 135509, A	c 346	15.6	65.0	2288	3	US-10-115-123-53	Sequence 53, Appli
c 275	15.6	65.0	601	3	US-09-949-016-135529	Sequence 135529, A	c 347	15.6	65.0	2365	3	US-10-104-047-507	Sequence 507, Appli
c 276	15.6	65.0	601	3	US-09-949-016-140935	Sequence 140935, A	c 348	15.6	65.0	2365	3	US-08-961-083-55	Sequence 55, Appli
c 277	15.6	65.0	601	3	US-09-949-016-152335	Sequence 152335, A	349	15.6	65.0	2389	3	US-08-961-083-55	Sequence 55, Appli
c 278	15.6	65.0	601	3	US-09-949-016-152335	Sequence 152335, A	350	15.6	65.0	2389	3	US-08-961-083-55	Sequence 55, Appli
c 279	15.6	65.0	601	3	US-09-949-016-15747	Sequence 15747, A	351	15.6	65.0	2389	3	US-08-961-083-55	Sequence 55, Appli
c 280	15.6	65.0	601	3	US-09-949-016-160371	Sequence 160371, A	c 352	15.6	65.0	2389	3	US-08-961-083-55	Sequence 55, Appli
c 281	15.6	65.0	601	3	US-09-949-016-161380	Sequence 161380, A	c 353	15.6	65.0	2389	3	US-08-961-083-55	Sequence 55, Appli
c 282	15.6	65.0	601	3	US-09-949-016-161381	Sequence 161381, A	c 354	15.6	65.0	2389	3	US-08-961-083-55	Sequence 55, Appli
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c 284	15.6	65.0	601	3	US-09-949-016-167596	Sequence 167596, A	c 356	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 285	15.6	65.0	601	3	US-09-949-016-167597	Sequence 167597, A	c 357	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 286	15.6	65.0	601	3	US-09-949-016-167599	Sequence 167599, A	c 358	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 287	15.6	65.0	601	3	US-09-949-016-167600	Sequence 167600, A	c 359	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 288	15.6	65.0	601	3	US-09-949-016-167703	Sequence 167703, A	c 360	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 289	15.6	65.0	601	3	US-09-949-016-167704	Sequence 167704, A	c 361	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 290	15.6	65.0	601	3	US-09-949-016-167706	Sequence 167706, A	c 362	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 291	15.6	65.0	601	3	US-09-949-016-167707	Sequence 167707, A	c 363	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 292	15.6	65.0	601	3	US-09-949-016-169173	Sequence 169173, A	c 364	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 293	15.6	65.0	601	3	US-09-949-016-170422	Sequence 170422, A	c 365	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 294	15.6	65.0	601	3	US-09-949-016-173701	Sequence 173701, A	c 366	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 295	15.6	65.0	601	3	US-09-949-016-173748	Sequence 173748, A	c 367	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 296	15.6	65.0	601	3	US-09-949-016-174183	Sequence 174183, A	c 368	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 297	15.6	65.0	601	3	US-09-949-016-174184	Sequence 174184, A	c 369	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 298	15.6	65.0	601	3	US-09-949-016-174375	Sequence 174375, A	c 370	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 299	15.6	65.0	601	3	US-09-949-016-174376	Sequence 174376, A	c 371	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 300	15.6	65.0	601	3	US-09-949-016-175355	Sequence 175355, A	c 372	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 301	15.6	65.0	601	3	US-09-949-016-188957	Sequence 188957, A	c 373	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 302	15.6	65.0	601	3	US-09-949-016-188957	Sequence 188957, A	c 374	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 303	15.6	65.0	601	3	US-09-949-016-193808	Sequence 193808, A	c 375	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 304	15.6	65.0	601	3	US-09-949-016-195194	Sequence 195194, A	c 376	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 305	15.6	65.0	601	3	US-09-949-016-201245	Sequence 201245, A	c 377	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 306	15.6	65.0	601	3	US-09-949-016-201359	Sequence 201359, A	c 378	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 307	15.6	65.0	601	3	US-09-949-016-202183	Sequence 202183, A	c 379	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 308	15.6	65.0	601	3	US-09-949-002-2230	Sequence 2230, Ap	c 380	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 309	15.6	65.0	601	3	US-09-949-002-2795	Sequence 2795, Ap	c 381	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 310	15.6	65.0	601	3	US-09-949-002-3079	Sequence 3079, Ap	c 382	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 311	15.6	65.0	601	3	US-09-949-002-3079	Sequence 3079, Ap	c 383	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 312	15.6	65.0	601	3	US-09-949-002-3081	Sequence 3081, Ap	c 384	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 313	15.6	65.0	601	3	US-09-949-002-3082	Sequence 3082, Ap	c 385	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 314	15.6	65.0	601	3	US-09-949-002-6509	Sequence 6509, Ap	c 386	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 315	15.6	65.0	601	3	US-09-949-002-6510	Sequence 6510, Ap	c 387	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
c 316	15.6	65.0	601	3	US-09-949-002-6511	Sequence 6511, Ap	c 388	15.6	65.0	2451	3	US-09-468-656A-9	Sequence 9, Appli
							c 389	15.6	65.0	8195	3	US-08-961-527-94	Sequence 94, Appli





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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:03:35 ; Search time 576.71 Seconds  
(without alignments)  
344.133 Million cell updates/sec

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Scoring table: IDENTITY\_NUC

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Searched: 9793542 seqs, 4134699005 residues

Total number of hits satisfying chosen parameters: 19587084

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Maximum Match 100%

Listing first 500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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1	24	100.0	24	9	US-10-805-973-7
C 2	18.8	78.3	1995	7	US-10-425-114-2854
C 3	18.8	78.3	2707	8	US-10-425-115-71430
4	18.4	76.7	25	9	US-10-805-973-9
5	18.2	75.8	43	6	US-10-326-587-32
6	18.2	75.8	201	7	US-10-741-601-25606
7	18.2	75.8	201	8	US-10-741-600-70242
8	18.2	75.8	336	7	US-10-242-535A-10803
9	18.2	75.8	336	7	US-10-085-783A-10803
10	18.2	75.8	545	8	US-10-425-115-19362
C 11	18.2	75.8	567	4	US-09-925-065A-254660
C 12	18.2	75.8	567	4	US-09-925-065A-254661
C 13	18.2	75.8	567	4	US-09-925-065A-254662
C 14	18.2	75.8	570	4	US-09-925-065A-337105
15	18.2	75.8	574	9	US-10-972-079-8439
16	18.2	75.8	600	9	US-10-972-079-8438
C 17	18.2	75.8	601	4	US-09-925-065A-108734
C 18	18.2	75.8	620	4	US-09-925-065A-43628
C 19	18.2	75.8	620	4	US-09-925-065A-43629
C 20	18.2	75.8	666	5	US-10-198-846-11501
C 21	18.2	75.8	710	4	US-09-925-065A-901284
C 22	18.2	75.8	712	4	US-09-925-065A-909425
C 23	18.2	75.8	840	5	US-10-198-846-2873

24	18.2	75.8	1366	8	US-10-425-115-65775	Sequence 65775, A
25	18.2	75.8	3280	5	US-10-027-632-265883	Sequence 265883, A
26	18.2	75.8	3280	5	US-10-027-632-265884	Sequence 265884, A
27	18.2	75.8	3280	6	US-10-027-632-265883	Sequence 265883, A
28	18.2	75.8	3280	6	US-10-027-632-265884	Sequence 265884, A
29	18.2	75.8	3477	4	US-09-925-065A-695364	Sequence 695364, A
30	18.2	75.8	41399	7	US-10-741-601-5768	Sequence 5768, A
31	18.2	75.8	41399	7	US-10-741-601-17976	Sequence 17976, A
32	18.2	75.8	150275	9	US-10-981-277-55	Sequence 55, Appl
33	17.8	74.2	353	3	US-09-955-999-35	Sequence 35, Appl
34	17.8	74.2	499	4	US-09-925-065A-71693	Sequence 71693, A
35	17.8	74.2	633	4	US-09-925-065A-778469	Sequence 778469, A
36	17.8	74.2	633	4	US-09-925-065A-778470	Sequence 778470, A
37	17.8	74.2	690	4	US-09-925-065A-933726	Sequence 933726, A
38	17.8	74.2	716	3	US-09-910-943-201	Sequence 201, Appl
39	17.8	74.2	1863	3	US-09-997-722-72	Sequence 72, Appl
40	17.8	74.2	4366	3	US-09-997-722-71	Sequence 71, Appl
41	17.8	74.2	4366	6	US-10-366-288-3	Sequence 3, Appl
42	17.8	74.2	4839	10	US-11-097-143-19204	Sequence 19204, A
43	17.8	74.2	6381	6	US-10-007-926A-45	Sequence 45, Appl
44	17.8	74.2	6383	3	US-09-954-531-405	Sequence 405, Appl
45	17.8	74.2	6383	9	US-10-843-641A-1472	Sequence 1472, Appl
46	17.8	74.2	6383	9	US-10-503-599-19	Sequence 19, Appl
47	17.8	74.2	6401	9	US-10-450-763-15907	Sequence 2, Appl
48	17.8	74.2	42348	7	US-10-715-066-2	Sequence 70, Appl
49	17.8	74.2	92563	3	US-09-997-722-70	Sequence 58, Appl
50	17.8	74.2	337344	8	US-10-388-838-58	Sequence 152886, A
51	17.6	73.3	547	4	US-09-925-065A-152886	Sequence 4806, Appl
52	17.6	73.3	597	6	US-10-029-386-4806	Sequence 160449, A
53	17.6	73.3	611	4	US-09-925-065A-160449	Sequence 160450, A
54	17.6	73.3	611	4	US-09-925-065A-160450	Sequence 160450, A
55	17.6	73.3	624	4	US-09-925-065A-748521	Sequence 748521, A
56	17.6	73.3	669	4	US-09-925-065A-860369	Sequence 860369, A
57	17.6	73.3	687	4	US-09-925-065A-864650	Sequence 864650, A
58	17.6	73.3	752	5	US-10-027-632-101881	Sequence 101881, A
59	17.6	73.3	752	6	US-10-027-632-101881	Sequence 101881, A
60	17.6	73.3	1933	7	US-10-424-599-122629	Sequence 122629, A
61	17.6	73.3	202814	8	US-10-719-993-6812	Sequence 6812, Appl
62	17.4	72.5	2144	4	US-09-925-065A-92746	Sequence 92746, A
63	17.4	72.5	192992	9	US-10-461-862-95	Sequence 95, Appl
64	17.2	71.7	91	3	US-08-864-761-32665	Sequence 22665, A
65	17.2	71.7	339	7	US-10-424-599-40200	Sequence 40200, A
66	17.2	71.7	421	7	US-10-242-535A-43905	Sequence 43905, A
67	17.2	71.7	421	7	US-10-085-783A-43905	Sequence 43905, A
68	17.2	71.7	448	3	US-09-864-761-1814	Sequence 1814, Appl
69	17.2	71.7	477	5	US-10-027-632-280554	Sequence 280554, A
70	17.2	71.7	477	6	US-10-027-632-280554	Sequence 280554, A
71	17.2	71.7	483	3	US-09-864-761-5905	Sequence 5905, Appl
72	17.2	71.7	508	4	US-09-925-065A-648279	Sequence 648279, A
73	17.2	71.7	508	4	US-09-925-065A-648280	Sequence 648280, A
74	17.2	71.7	525	4	US-09-925-065A-530242	Sequence 530242, A
75	17.2	71.7	554	4	US-09-925-065A-779553	Sequence 779553, A
76	17.2	71.7	556	9	US-10-779-543-21325	Sequence 21325, A
77	17.2	71.7	586	4	US-09-925-065A-641182	Sequence 641182, A
78	17.2	71.7	586	4	US-09-925-065A-641183	Sequence 641183, A
79	17.2	71.7	586	4	US-09-925-065A-641184	Sequence 641184, A
80	17.2	71.7	589	5	US-10-027-632-239539	Sequence 239539, A
81	17.2	71.7	589	5	US-10-027-632-239540	Sequence 239540, A
82	17.2	71.7	589	6	US-10-027-632-239540	Sequence 239540, A
83	17.2	71.7	600	4	US-10-027-632-239540	Sequence 239540, A
84	17.2	71.7	600	4	US-09-925-065A-260527	Sequence 260527, A
85	17.2	71.7	600	4	US-09-925-065A-260528	Sequence 260528, A
86	17.2	71.7	615	5	US-10-198-846-8859	Sequence 8859, Appl
87	17.2	71.7	623	4	US-09-925-065A-872366	Sequence 872366, A
88	17.2	71.7	623	4	US-09-925-065A-872367	Sequence 872367, A
89	17.2	71.7	647	4	US-09-925-065A-32255	Sequence 32255, A
90	17.2	71.7	647	4	US-09-925-065A-32256	Sequence 32256, A
91	17.2	71.7	648	7	US-10-282-122A-12394	Sequence 12394, A
92	17.2	71.7	681	5	US-10-027-632-150420	Sequence 150420, A
93	17.2	71.7	681	6	US-10-027-632-150420	Sequence 150420, A
94	17.2	71.7	726	4	US-09-925-065A-89695	Sequence 89695, A
95	17.2	71.7	981	5	US-10-027-632-9997	Sequence 9997, Appl
96	17.2	71.7	981	5	US-10-027-632-9998	Sequence 9998, Appl

c 97	17.2	71.7	981	6	US-10-027-632-9997	Sequence 9997, Ap	c 170	16.8	70.0	669	5	US-10-027-632-259815	Sequence 259815,
c 98	17.2	71.7	981	6	US-10-027-632-9998	Sequence 9998, Ap	c 171	16.8	70.0	669	5	US-10-027-632-259816	Sequence 259816,
c 99	17.2	71.7	1041	5	US-10-027-632-262468	Sequence 262468,	c 172	16.8	70.0	669	5	US-10-027-632-259817	Sequence 259817,
c 100	17.2	71.7	1041	5	US-10-027-632-262468	Sequence 262468,	c 173	16.8	70.0	669	5	US-10-027-632-259818	Sequence 259818,
c 101	17.2	71.7	1179	5	US-10-198-846-11322	Sequence 11322, A	c 174	16.8	70.0	669	6	US-10-027-632-259814	Sequence 259814,
c 102	17.2	71.7	1190	4	US-09-925-065A-23209	Sequence 23209, A	c 175	16.8	70.0	669	6	US-10-027-632-259815	Sequence 259815,
c 103	17.2	71.7	1290	4	US-09-925-065A-49211	Sequence 49211, A	c 176	16.8	70.0	669	6	US-10-027-632-259816	Sequence 259816,
c 104	17.2	71.7	1290	4	US-09-925-065A-49212	Sequence 49212, A	c 177	16.8	70.0	669	6	US-10-027-632-259817	Sequence 259817,
c 105	17.2	71.7	1296	10	US-11-097-143-14981	Sequence 14981, A	c 178	16.8	70.0	669	6	US-10-027-632-259818	Sequence 259818,
c 106	17.2	71.7	1899	5	US-10-027-632-97694	Sequence 97694, A	c 179	16.8	70.0	702	5	US-10-027-632-16102	Sequence 16102, A
c 107	17.2	71.7	1899	5	US-10-027-632-97694	Sequence 97694, A	c 180	16.8	70.0	702	5	US-10-027-632-16102	Sequence 16102, A
c 108	17.2	71.7	1902	5	US-10-027-632-100021	Sequence 100021,	c 181	16.8	70.0	722	5	US-10-027-632-150489	Sequence 150489,
c 109	17.2	71.7	1902	5	US-10-027-632-100022	Sequence 100022,	c 182	16.8	70.0	722	5	US-10-027-632-150490	Sequence 150490,
c 110	17.2	71.7	1902	6	US-10-027-632-100022	Sequence 100022,	c 183	16.8	70.0	722	5	US-10-027-632-150491	Sequence 150491,
c 111	17.2	71.7	2177	5	US-10-027-632-102254	Sequence 102254,	c 184	16.8	70.0	722	6	US-10-027-632-150490	Sequence 150490,
c 112	17.2	71.7	2177	5	US-10-027-632-102254	Sequence 102254,	c 185	16.8	70.0	722	6	US-10-027-632-150491	Sequence 150491,
c 113	17.2	71.7	2177	5	US-10-027-632-102255	Sequence 102255,	c 186	16.8	70.0	722	6	US-10-027-632-150491	Sequence 150491,
c 114	17.2	71.7	2177	6	US-10-027-632-102254	Sequence 102254,	c 187	16.8	70.0	774	4	US-09-925-065A-938940	Sequence 938940,
c 115	17.2	71.7	2177	6	US-10-027-632-102255	Sequence 102255,	c 188	16.8	70.0	774	4	US-09-925-065A-940232	Sequence 940232,
c 116	17.2	71.7	2306	8	US-10-278-698-47	Sequence 47, Appl	c 189	16.8	70.0	816	8	US-10-425-115-45774	Sequence 45774, A
c 117	17.2	71.7	2306	8	US-10-278-698-561	Sequence 561, Appl	c 190	16.8	70.0	866	8	US-10-425-115-45774	Sequence 45774, A
c 118	17.2	71.7	2306	8	US-10-161-803-50	Sequence 50, Appl	c 191	16.8	70.0	1709	7	US-10-424-599-63429	Sequence 63429, A
c 119	17.2	71.7	2308	5	US-10-207-655-171	Sequence 171, Appl	c 192	16.8	70.0	2172	10	US-11-087-143-13670	Sequence 13670, A
c 120	17.2	71.7	2308	7	US-10-052-482-113	Sequence 113, Appl	c 193	16.8	70.0	2194	4	US-09-925-065A-672808	Sequence 672808,
c 121	17.2	71.7	2335	7	US-10-641-643-1312	Sequence 1312, Appl	c 194	16.8	70.0	2194	4	US-09-925-065A-672809	Sequence 672809,
c 122	17.2	71.7	2335	9	US-10-929-182-3	Sequence 3, Appl	c 195	16.8	70.0	2194	4	US-09-925-065A-672810	Sequence 672810,
c 123	17.2	71.7	2335	9	US-10-756-149-1787	Sequence 1787, Appl	c 196	16.8	70.0	2194	4	US-09-925-065A-672811	Sequence 672811,
c 124	17.2	71.7	2352	6	US-10-108-260A-1423	Sequence 1423, Ap	c 197	16.8	70.0	3001	6	US-10-147-603-158	Sequence 158, App
c 125	17.2	71.7	4336	10	US-11-097-143-14980	Sequence 14980, A	c 198	16.8	70.0	4578	10	US-11-087-143-13669	Sequence 13669, A
c 126	17.2	71.7	5456	6	US-10-349-680-166	Sequence 166, Appl	c 199	16.8	70.0	187986	8	US-10-741-600-17644	Sequence 17644, A
c 127	17.2	71.7	9456	6	US-10-242-355-740	Sequence 740, Appl	c 200	16.8	70.0	215221	5	US-10-087-192-1360	Sequence 1360, Ap
c 128	17.2	71.7	9456	7	US-10-052-482-91	Sequence 91, Appl	c 201	16.6	69.2	185	9	US-10-884-374-1156	Sequence 1156, Ap
c 129	17.2	71.7	43411	7	US-10-450-826-76	Sequence 76, Appl	c 202	16.6	69.2	187	7	US-10-242-535A-15380	Sequence 15380, A
c 130	17.2	71.7	53598	8	US-10-741-600-17744	Sequence 17744, A	c 203	16.6	69.2	187	7	US-10-085-783A-15380	Sequence 15380, A
c 131	17.2	71.7	56826	7	US-10-322-281-664	Sequence 664, Appl	c 204	16.6	69.2	206	3	US-09-984-429-570	Sequence 570, App
c 132	17.2	71.7	70351	7	US-10-052-482-112	Sequence 112, Appl	c 205	16.6	69.2	271	8	US-10-425-115-18354	Sequence 18354, A
c 133	17.2	71.7	80251	10	US-11-097-143-21904	Sequence 21904, A	c 206	16.6	69.2	294	7	US-10-242-535A-8355	Sequence 8355, Ap
c 134	17.2	71.7	80251	10	US-11-097-143-21913	Sequence 21913, A	c 207	16.6	69.2	294	7	US-10-085-783A-8355	Sequence 8355, Ap
c 135	17.2	71.7	93112	8	US-10-741-600-17618	Sequence 17618, A	c 208	16.6	69.2	300	9	US-10-779-543-7463	Sequence 7463, Ap
c 136	17.2	71.7	98948	7	US-10-322-281-290	Sequence 290, Appl	c 209	16.6	69.2	308	8	US-10-357-930-50535	Sequence 50535, A
c 137	17.2	71.7	129042	5	US-10-087-192-1240	Sequence 1240, Ap	c 210	16.6	69.2	309	7	US-10-424-599-124264	Sequence 124264,
c 138	17.2	71.7	185548	5	US-10-175-523-62	Sequence 62, Appl	c 211	16.6	69.2	313	3	US-09-777-564-550	Sequence 550, App
c 139	17.2	71.7	185548	10	US-11-099-286-62	Sequence 62, Appl	c 212	16.6	69.2	313	3	US-10-015-219-550	Sequence 550, App
c 140	17.2	71.7	219715	8	US-10-417-375-63	Sequence 63, Appl	c 213	16.6	69.2	319	3	US-09-942-052-724	Sequence 724, App
c 141	17.2	71.7	295096	5	US-10-087-192-331	Sequence 331, Appl	c 214	16.6	69.2	319	3	US-09-942-052-725	Sequence 725, App
c 142	17.2	71.7	350764	5	US-10-087-192-1864	Sequence 1864, Appl	c 215	16.6	69.2	319	3	US-09-942-052-726	Sequence 726, App
c 143	17.2	71.7	653122	5	US-10-087-192-226	Sequence 226, Appl	c 216	16.6	69.2	354	7	US-10-335-977-1246	Sequence 1246, Ap
c 144	16.8	70.0	201	8	US-10-741-600-32948	Sequence 32948, A	c 217	16.6	69.2	355	7	US-10-424-599-82022	Sequence 82022, A
c 145	16.8	70.0	335	3	US-09-960-706-530	Sequence 530, Appl	c 218	16.6	69.2	370	7	US-10-424-599-34505	Sequence 34505, A
c 146	16.8	70.0	335	3	US-09-873-319-324	Sequence 324, Appl	c 219	16.6	69.2	378	3	US-09-864-408A-1533	Sequence 1533, Ap
c 147	16.8	70.0	343	3	US-09-867-701-8043	Sequence 8043, Ap	c 220	16.6	69.2	383	9	US-10-779-543-11835	Sequence 11835, A
c 148	16.8	70.0	367	3	US-09-864-408A-8739	Sequence 8739, Ap	c 221	16.6	69.2	397	3	US-09-960-352-2632	Sequence 2632, Ap
c 149	16.8	70.0	438	8	US-10-425-115-82908	Sequence 82908, A	c 222	16.6	69.2	397	9	US-10-972-079-59339	Sequence 59339, A
c 150	16.8	70.0	498	3	US-09-777-564-997	Sequence 997, Appl	c 223	16.6	69.2	398	3	US-09-960-352-2173	Sequence 2173, Ap
c 151	16.8	70.0	498	5	US-10-015-219-997	Sequence 997, Appl	c 224	16.6	69.2	410	4	US-09-925-065A-222304	Sequence 222304,
c 152	16.8	70.0	534	7	US-10-767-701-22890	Sequence 22890, A	c 225	16.6	69.2	414	7	US-10-424-599-104274	Sequence 104274,
c 153	16.8	70.0	549	4	US-09-925-065A-63556	Sequence 63556, A	c 226	16.6	69.2	422	9	US-10-631-467-1069	Sequence 1069, Ap
c 154	16.8	70.0	549	4	US-09-925-065A-63557	Sequence 63557, A	c 227	16.6	69.2	425	3	US-09-918-995-4943	Sequence 4943, Ap
c 155	16.8	70.0	549	4	US-09-925-065A-63558	Sequence 63558, A	c 228	16.6	69.2	429	3	US-09-960-352-887	Sequence 887, App
c 156	16.8	70.0	556	6	US-10-029-386-1439	Sequence 1429, Ap	c 229	16.6	69.2	440	7	US-10-242-535A-51625	Sequence 51625, A
c 157	16.8	70.0	600	9	US-10-972-079-43007	Sequence 43007, A	c 230	16.6	69.2	440	7	US-10-085-783A-57775	Sequence 57775, A
c 158	16.8	70.0	617	4	US-09-925-065A-86710	Sequence 86710, A	c 231	16.6	69.2	472	7	US-10-085-783A-57775	Sequence 57775, A
c 159	16.8	70.0	617	4	US-09-925-065A-875031	Sequence 875031, A	c 232	16.6	69.2	472	7	US-10-027-632-266715	Sequence 266715,
c 160	16.8	70.0	620	4	US-09-925-065A-920444	Sequence 920444, A	c 233	16.6	69.2	476	5	US-10-027-632-266716	Sequence 266716,
c 161	16.8	70.0	640	5	US-10-027-632-256917	Sequence 256917, A	c 234	16.6	69.2	476	5	US-10-027-632-266715	Sequence 266715,
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c 163	16.8	70.0	656	5	US-10-027-632-113470	Sequence 113470, A	c 236	16.6	69.2	476	6	US-10-242-535A-26935	Sequence 26935, A
c 164	16.8	70.0	656	5	US-10-027-632-113471	Sequence 113471, A	c 237	16.6	69.2	476	7	US-10-085-783A-26935	Sequence 26935, A
c 165	16.8	70.0	656	5	US-10-027-632-113472	Sequence 113472, A	c 238	16.6	69.2	480	3	US-09-867-701-1451	Sequence 1451, Ap
c 166	16.8	70.0	656	6	US-10-027-632-113470	Sequence 113470, A	c 239	16.6	69.2	489	5	US-10-027-632-210253	Sequence 210253,
c 167	16.8	70.0	656	6	US-10-027-632-113471	Sequence 113471, A	c 240	16.6	69.2	489	6	US-10-027-632-210253	Sequence 210253,
c 168	16.8	70.0	656	6	US-10-027-632-113472	Sequence 113472, A	c 241	16.6	69.2	489	6	US-09-925-065A-289974	Sequence 289974,
c 169	16.8	70.0	669	5	US-10-027-632-259814	Sequence 259814,	c 242	16.6	69.2	493	4		

C 243	16.6	69.2	493	4	US-09-925-065A-289975	Sequence 289975, A	C 316	16.6	69.2	657	4	US-09-925-065A-772812	Sequence 772812, A
C 244	16.6	69.2	498	5	US-10-027-632-85585	Sequence 85585, A	C 317	16.6	69.2	657	4	US-09-925-065A-836443	Sequence 836443, A
C 245	16.6	69.2	498	6	US-10-027-632-85585	Sequence 85585, A	C 318	16.6	69.2	658	4	US-09-925-065A-821999	Sequence 821999, A
C 246	16.6	69.2	509	4	US-09-925-065A-546788	Sequence 546788, A	C 319	16.6	69.2	659	4	US-09-925-065A-888075	Sequence 888075, A
C 247	16.6	69.2	513	4	US-09-925-065A-515238	Sequence 515238, A	C 320	16.6	69.2	659	4	US-09-925-065A-888076	Sequence 888076, A
C 248	16.6	69.2	524	4	US-09-925-065A-367953	Sequence 367953, A	C 321	16.6	69.2	663	5	US-10-027-632-17910	Sequence 17910, A
C 249	16.6	69.2	524	4	US-09-925-065A-367954	Sequence 367954, A	C 322	16.6	69.2	663	5	US-10-027-632-17910	Sequence 17910, A
C 250	16.6	69.2	525	5	US-10-027-632-239332	Sequence 239332, A	C 323	16.6	69.2	666	3	US-09-777-564-235	Sequence 295, App
C 251	16.6	69.2	525	5	US-10-027-632-239333	Sequence 239333, A	C 324	16.6	69.2	666	3	US-09-925-065A-879486	Sequence 879486, A
C 252	16.6	69.2	525	6	US-10-027-632-239332	Sequence 239332, A	C 325	16.6	69.2	666	5	US-10-015-219-295	Sequence 295, App
C 253	16.6	69.2	526	6	US-10-027-632-239333	Sequence 239333, A	C 326	16.6	69.2	667	4	US-09-925-065A-873995	Sequence 873995, A
C 254	16.6	69.2	526	7	US-10-027-632-239333	Sequence 239333, A	C 327	16.6	69.2	668	4	US-09-925-065A-864651	Sequence 864651, A
C 255	16.6	69.2	526	7	US-10-085-783A-45554	Sequence 45554, A	C 328	16.6	69.2	687	4	US-09-925-065A-426467	Sequence 426467, A
C 256	16.6	69.2	529	4	US-09-925-065A-826640	Sequence 826640, A	C 329	16.6	69.2	767	5	US-10-027-632-124718	Sequence 124718, A
C 257	16.6	69.2	529	4	US-09-925-065A-826641	Sequence 826641, A	C 330	16.6	69.2	767	5	US-10-027-632-124718	Sequence 124718, A
C 258	16.6	69.2	531	4	US-09-925-065A-230283	Sequence 230283, A	C 331	16.6	69.2	770	3	US-09-938-842A-4714	Sequence 4714, Ap
C 259	16.6	69.2	531	4	US-09-925-065A-665995	Sequence 665995, A	C 332	16.6	69.2	770	3	US-09-938-842A-4714	Sequence 4714, Ap
C 260	16.6	69.2	532	4	US-09-925-065A-154086	Sequence 154086, A	C 333	16.6	69.2	772	3	US-10-335-977-1247	Sequence 1247, Ap
C 261	16.6	69.2	539	4	US-09-925-065A-98494	Sequence 98494, A	C 334	16.6	69.2	828	7	US-10-335-977-1248	Sequence 1248, Ap
C 262	16.6	69.2	545	4	US-09-925-065A-566824	Sequence 566824, A	C 335	16.6	69.2	843	7	US-10-424-599-48159	Sequence 48159, A
C 263	16.6	69.2	545	4	US-09-925-065A-244359	Sequence 244359, A	C 336	16.6	69.2	875	3	US-09-814-353-21558	Sequence 21558, A
C 264	16.6	69.2	549	4	US-09-925-065A-244360	Sequence 244360, A	C 337	16.6	69.2	894	4	US-09-925-065A-681755	Sequence 681755, A
C 265	16.6	69.2	549	4	US-09-925-065A-244360	Sequence 244360, A	C 338	16.6	69.2	894	4	US-09-925-065A-681756	Sequence 681756, A
C 266	16.6	69.2	565	4	US-09-925-065A-521236	Sequence 521236, A	C 339	16.6	69.2	897	7	US-10-335-977-1249	Sequence 1249, Ap
C 267	16.6	69.2	568	4	US-09-925-065A-914162	Sequence 914162, A	C 340	16.6	69.2	948	8	US-10-774-355A-418	Sequence 418, App
C 268	16.6	69.2	576	5	US-10-027-632-271137	Sequence 271137, A	C 341	16.6	69.2	952	5	US-10-106-698-1999	Sequence 1999, Ap
C 269	16.6	69.2	576	6	US-10-027-632-271137	Sequence 271137, A	C 342	16.6	69.2	977	4	US-09-925-065A-681565	Sequence 681565, A
C 270	16.6	69.2	579	4	US-09-925-065A-18548	Sequence 18548, A	C 343	16.6	69.2	977	4	US-09-925-065A-681566	Sequence 681566, A
C 271	16.6	69.2	583	4	US-09-925-065A-129128	Sequence 129128, A	C 344	16.6	69.2	977	4	US-09-925-065A-681567	Sequence 681567, A
C 272	16.6	69.2	584	4	US-09-925-065A-88570	Sequence 88570, A	C 345	16.6	69.2	977	4	US-09-925-065A-681568	Sequence 681568, A
C 273	16.6	69.2	586	4	US-09-925-065A-905187	Sequence 905187, A	C 346	16.6	69.2	977	4	US-09-925-065A-681569	Sequence 681569, A
C 274	16.6	69.2	586	8	US-09-925-065A-59324	Sequence 59324, A	C 347	16.6	69.2	987	4	US-09-925-065A-64698	Sequence 64698, A
C 275	16.6	69.2	589	4	US-09-925-065A-862930	Sequence 862930, A	C 348	16.6	69.2	987	4	US-09-925-065A-64698	Sequence 64698, A
C 276	16.6	69.2	591	4	US-09-925-065A-882914	Sequence 882914, A	C 349	16.6	69.2	1104	4	US-09-925-065A-671500	Sequence 671500, A
C 277	16.6	69.2	594	4	US-09-925-065A-826039	Sequence 826039, A	C 350	16.6	69.2	1143	3	US-09-956-999-6	Sequence 6, Appl1
C 278	16.6	69.2	599	4	US-09-925-065A-255340	Sequence 255340, A	C 351	16.6	69.2	1157	8	US-10-767-795-6327	Sequence 6327, Ap
C 279	16.6	69.2	600	9	US-09-925-065A-18546	Sequence 18546, A	C 352	16.6	69.2	1158	9	US-10-840-060-148	Sequence 148, App
C 280	16.6	69.2	601	4	US-09-925-065A-947567	Sequence 947567, A	C 353	16.6	69.2	1203	3	US-09-971-392-77	Sequence 77, Appl1
C 281	16.6	69.2	602	4	US-09-925-065A-816785	Sequence 816785, A	C 354	16.6	69.2	1203	3	US-10-765-700-100	Sequence 100, App
C 282	16.6	69.2	603	4	US-09-925-065A-536555	Sequence 536555, A	C 355	16.6	69.2	1223	5	US-10-027-632-255721	Sequence 255721, A
C 283	16.6	69.2	607	4	US-09-925-065A-630057	Sequence 630057, A	C 356	16.6	69.2	1223	5	US-10-027-632-255721	Sequence 255721, A
C 284	16.6	69.2	610	7	US-10-424-599-57852	Sequence 57852, A	C 357	16.6	69.2	1257	7	US-10-282-122A-11217	Sequence 11217, A
C 285	16.6	69.2	611	5	US-10-027-632-263085	Sequence 263085, A	C 358	16.6	69.2	1262	3	US-09-942-052-727	Sequence 727, App
C 286	16.6	69.2	611	5	US-10-027-632-263086	Sequence 263086, A	C 359	16.6	69.2	1450	9	US-10-764-420-2491	Sequence 2491, Ap
C 287	16.6	69.2	611	6	US-10-027-632-263085	Sequence 263085, A	C 360	16.6	69.2	1539	4	US-09-925-065A-711436	Sequence 711436, A
C 288	16.6	69.2	611	6	US-10-027-632-263086	Sequence 263086, A	C 361	16.6	69.2	1539	4	US-09-925-065A-711437	Sequence 711437, A
C 289	16.6	69.2	613	4	US-09-925-065A-756697	Sequence 756697, A	C 362	16.6	69.2	1604	9	US-10-450-763-1191	Sequence 1191, Ap
C 290	16.6	69.2	613	4	US-09-925-065A-756698	Sequence 756698, A	C 363	16.6	69.2	1604	9	US-10-450-763-4487	Sequence 4487, Ap
C 291	16.6	69.2	615	4	US-09-925-065A-629248	Sequence 629248, A	C 364	16.6	69.2	1608	5	US-10-171-581-199	Sequence 199, App
C 292	16.6	69.2	615	4	US-09-925-065A-629248	Sequence 629248, A	C 365	16.6	69.2	1608	5	US-10-172-118-1067	Sequence 1067, Ap
C 293	16.6	69.2	617	4	US-09-925-065A-784668	Sequence 784668, A	C 366	16.6	69.2	1608	7	US-10-342-887-1067	Sequence 1067, Ap
C 294	16.6	69.2	617	5	US-10-027-632-287606	Sequence 287606, A	C 367	16.6	69.2	1610	4	US-09-925-065A-549107	Sequence 549107, A
C 295	16.6	69.2	617	6	US-10-027-632-287606	Sequence 287606, A	C 368	16.6	69.2	1610	4	US-09-925-065A-549108	Sequence 549108, A
C 296	16.6	69.2	620	5	US-10-027-632-224620	Sequence 224620, A	C 369	16.6	69.2	1615	7	US-10-322-281-46	Sequence 46, Appl1
C 297	16.6	69.2	620	6	US-10-027-632-224620	Sequence 224620, A	C 370	16.6	69.2	1620	9	US-10-450-763-29277	Sequence 29277, A
C 298	16.6	69.2	624	5	US-10-027-632-236728	Sequence 236728, A	C 371	16.6	69.2	1627	6	US-10-159-563-128	Sequence 128, App
C 299	16.6	69.2	624	5	US-10-027-632-236728	Sequence 236728, A	C 372	16.6	69.2	1627	6	US-09-925-065A-44889	Sequence 44889, A
C 300	16.6	69.2	629	5	US-10-027-632-217402	Sequence 217402, A	C 373	16.6	69.2	1638	4	US-09-925-065A-44890	Sequence 44890, A
C 301	16.6	69.2	629	6	US-10-027-632-217402	Sequence 217402, A	C 374	16.6	69.2	1796	7	US-10-424-599-76959	Sequence 76959, A
C 302	16.6	69.2	632	4	US-09-925-065A-332041	Sequence 332041, A	C 375	16.6	69.2	1878	7	US-10-424-599-88967	Sequence 88967, A
C 303	16.6	69.2	633	5	US-10-027-632-204381	Sequence 204381, A	C 376	16.6	69.2	1928	9	US-10-631-467-1215	Sequence 1215, Ap
C 304	16.6	69.2	633	6	US-10-027-632-204381	Sequence 204381, A	C 377	16.6	69.2	2025	7	US-10-437-963-54359	Sequence 54359, A
C 305	16.6	69.2	636	4	US-09-925-065A-798900	Sequence 798900, A	C 378	16.6	69.2	2045	7	US-10-424-599-27456	Sequence 27456, A
C 306	16.6	69.2	637	5	US-10-027-632-206951	Sequence 206951, A	C 379	16.6	69.2	2058	7	US-10-001-192A-16	Sequence 16, Appl1
C 307	16.6	69.2	637	6	US-10-027-632-206951	Sequence 206951, A	C 380	16.6	69.2	2377	10	US-11-070-405-26	Sequence 26, Appl1
C 308	16.6	69.2	638	4	US-09-925-065A-918601	Sequence 918601, A	C 381	16.6	69.2	2386	4	US-09-925-065A-718255	Sequence 718255, A
C 309	16.6	69.2	638	4	US-09-925-065A-918602	Sequence 918602, A	C 382	16.6	69.2	2386	4	US-09-925-065A-718256	Sequence 718256, A
C 310	16.6	69.2	638	4	US-09-925-065A-945205	Sequence 945205, A	C 383	16.6	69.2	2386	4	US-09-925-065A-718257	Sequence 718257, A
C 311	16.6	69.2	643	4	US-09-925-065A-444278	Sequence 444278, A	C 384	16.6	69.2	2386	4	US-09-925-065A-718258	Sequence 718258, A
C 312	16.6	69.2	644	4	US-09-925-065A-924177	Sequence 924177, A	C 385	16.6	69.2	2395	4	US-09-925-065A-673838	Sequence 673838, A
C 313	16.6	69.2	650	4	US-09-925-065A-717413	Sequence 717413, A	C 386	16.6	69.2	2909	6	US-10-172-118-276	Sequence 276, App
C 314	16.6	69.2	650	4	US-09-925-065A-717414	Sequence 717414, A	C 387	16.6	69.2	2909	7	US-10-342-887-276	Sequence 276, App
C 315	16.6	69.2	653	8	US-10-425-115-125590	Sequence 125590, A	C 388	16.6	69.2	2940	7	US-10-437-963-39550	Sequence 39550, A

389	16.6	69.2	3206	5	US-10-027-632-114097	Sequence 114097,	462	16.2	67.5	25	7	US-10-719-956-20435	Sequence 20435, A
390	16.6	69.2	3206	6	US-10-027-632-114097	Sequence 114097,	463	16.2	67.5	25	8	US-10-719-900-954093	Sequence 954093,
391	16.6	69.2	3856	9	US-10-840-060-20348	Sequence 205, App	c 464	16.2	67.5	25	10	US-11-036-317-362297	Sequence 362297,
392	16.6	69.2	3886	8	US-10-425-115-160348	Sequence 160348,	c 465	16.2	67.5	25	10	US-11-036-317-448856	Sequence 448856,
393	16.6	69.2	4056	6	US-10-144-194A-85	Sequence 85, App1	466	16.2	67.5	169	8	US-10-425-115-80859	Sequence 80859, A
394	16.6	69.2	4056	8	US-10-491-566-85	Sequence 85, App1	c 467	16.2	67.5	201	8	US-10-719-993-43450	Sequence 43450, A
395	16.6	69.2	4056	6	US-10-717-665-55	Sequence 55, App1	468	16.2	67.5	201	8	US-10-719-993-44226	Sequence 44226, A
396	16.6	69.2	4248	6	US-10-144-194A-83	Sequence 83, App1	469	16.2	67.5	201	8	US-10-741-600-57209	Sequence 57209, A
397	16.6	69.2	4248	8	US-10-491-566-83	Sequence 83, App1	c 470	16.2	67.5	276	7	US-10-424-599-73520	Sequence 73520, A
398	16.6	69.2	4248	8	US-10-491-566-83	Sequence 83, App1	471	16.2	67.5	289	8	US-10-357-930-8360	Sequence 8360, Ap
399	16.6	69.2	4248	9	US-10-717-665-53	Sequence 53, App1	c 472	16.2	67.5	315	8	US-10-357-930-60101	Sequence 60101, A
400	16.6	69.2	5171	9	US-10-437-963-335779	Sequence 330, App	c 473	16.2	67.5	322	3	US-09-998-598-1457	Sequence 1457, Ap
401	16.6	69.2	7200	3	US-09-853-450-48	Sequence 48, App1	c 474	16.2	67.5	335	4	US-09-925-065A-606836	Sequence 606836,
402	16.6	69.2	7200	8	US-10-794-923-48	Sequence 48, App1	475	16.2	67.5	337	3	US-09-770-791-889	Sequence 889, App
403	16.6	69.2	9909	6	US-10-264-283-87	Sequence 87, App1	c 476	16.2	67.5	366	3	US-09-864-761-11158	Sequence 11158, A
404	16.6	69.2	9909	6	US-10-868-490A-3	Sequence 3, App1	c 477	16.2	67.5	366	9	US-10-756-149-2421	Sequence 2421, Ap
405	16.6	69.2	20320	8	US-10-741-600-17679	Sequence 17679, A	478	16.2	67.5	404	4	US-09-925-065A-834886	Sequence 834886,
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407	16.6	69.2	24977	3	US-09-764-891-5951	Sequence 5951, Ap	c 480	16.2	67.5	405	4	US-09-925-065A-829776	Sequence 829776,
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409	16.6	69.2	24983	3	US-09-764-891-5950	Sequence 5950, Ap	c 482	16.2	67.5	408	8	US-10-357-930-4389	Sequence 4389, Ap
410	16.6	69.2	24983	3	US-09-764-891-5950	Sequence 5950, Ap	c 483	16.2	67.5	419	4	US-09-925-065A-558076	Sequence 558076,
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413	16.6	69.2	34562	6	US-10-417-476-28	Sequence 28, App1	c 486	16.2	67.5	431	7	US-10-437-963-66923	Sequence 66923, A
414	16.6	69.2	63502	5	US-10-087-192-271	Sequence 271, App	c 487	16.2	67.5	441	8	US-10-674-124A-18708	Sequence 18708, A
415	16.6	69.2	65454	7	US-10-293-864-11	Sequence 11, App1	488	16.2	67.5	475	5	US-10-027-632-283061	Sequence 283061,
416	16.6	69.2	83943	9	US-10-461-863-119	Sequence 119, App	489	16.2	67.5	475	6	US-10-027-632-283061	Sequence 283061,
417	16.6	69.2	86580	6	US-10-719-993-6771	Sequence 6771, Ap	c 490	16.2	67.5	484	7	US-10-425-114-23237	Sequence 23237, A
418	16.6	69.2	86580	6	US-10-085-117-64	Sequence 64, App1	c 491	16.2	67.5	489	4	US-09-925-065A-873829	Sequence 873829,
419	16.6	69.2	96595	7	US-10-052-482-232	Sequence 232, App	492	16.2	67.5	501	3	US-09-864-408A-5977	Sequence 5977, Ap
420	16.6	69.2	106373	8	US-10-388-838-96	Sequence 96, App1	493	16.2	67.5	516	4	US-09-925-065A-60653	Sequence 60653,
421	16.6	69.2	128779	6	US-10-081-327-38	Sequence 38, App1	494	16.2	67.5	518	7	US-10-767-701-22104	Sequence 22104, A
422	16.6	69.2	143973	5	US-10-087-192-442	Sequence 442, App	495	16.2	67.5	520	8	US-10-425-115-180428	Sequence 180428, A
423	16.6	69.2	149241	9	US-10-981-277-57	Sequence 57, App1	496	16.2	67.5	535	9	US-10-450-763-3243	Sequence 3243, Ap
424	16.6	69.2	173700	5	US-10-981-277-25	Sequence 25, App1	497	16.2	67.5	546	4	US-09-925-065A-644421	Sequence 644421,
425	16.6	69.2	174448	5	US-10-087-192-148	Sequence 148, App	498	16.2	67.5	546	4	US-09-925-065A-644422	Sequence 644422,
426	16.6	69.2	218336	8	US-10-473-939-10	Sequence 10, App1	c 499	16.2	67.5	546	4	US-09-925-065A-928616	Sequence 928616,
427	16.6	69.2	219352	7	US-10-322-281-45	Sequence 45, App1	c 500	16.2	67.5	546	4	US-09-925-065A-928617	Sequence 928617,
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431	16.6	69.2	312972	9	US-10-893-315-157	Sequence 157, App							
432	16.6	69.2	321019	8	US-10-741-600-17566	Sequence 17566, A							
433	16.6	69.2	329019	8	US-10-388-838-48	Sequence 48, App1							
434	16.6	69.2	337022	6	US-10-027-696-52	Sequence 52, App1							
435	16.6	69.2	392000	6	US-10-448-753-11	Sequence 11, App1							
436	16.6	69.2	392000	6	US-10-481-613-1	Sequence 1, App1							
437	16.6	69.2	410846	9	US-09-933-267A-1	Sequence 1, App1							
438	16.6	69.2	465237	3	US-10-741-601-5682	Sequence 5682, Ap							
439	16.6	69.2	561515	7	US-10-741-601-5682	Sequence 5682, Ap							
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441	16.6	68.3	25	7	US-10-719-956-457861	Sequence 457861,							
442	16.4	68.3	201	8	US-10-719-993-2151	Sequence 2151, Ap							
443	16.4	68.3	201	8	US-10-719-993-2150	Sequence 2150, Ap							
444	16.4	68.3	201	8	US-10-719-993-14425	Sequence 14425, A							
445	16.4	68.3	201	8	US-10-719-993-14427	Sequence 14427, A							
446	16.4	68.3	371	9	US-10-972-079-17726	Sequence 17726, A							
447	16.4	68.3	566	4	US-09-925-065A-881562	Sequence 881562,							
448	16.4	68.3	566	4	US-09-925-065A-909045	Sequence 909045,							
449	16.4	68.3	717	7	US-10-282-122A-16258	Sequence 16258, A							
450	16.4	68.3	1080	7	US-10-437-963-77962	Sequence 77962, A							
451	16.4	68.3	1400	10	US-11-060-756-2776	Sequence 2776, Ap							
452	16.4	68.3	1400	10	US-11-060-756-7048	Sequence 7048, Ap							
453	16.4	68.3	1908	3	US-09-974-300-558	Sequence 558, App							
454	16.4	68.3	1933	7	US-10-437-963-44272	Sequence 44272, A							
455	16.4	68.3	2716	7	US-10-437-963-88052	Sequence 88052, A							
456	16.4	68.3	3043	8	US-10-719-993-113	Sequence 113, App							
457	16.4	68.3	3044	7	US-10-429-160-59	Sequence 59, App1							
458	16.4	68.3	3223	8	US-10-719-993-114	Sequence 114, App							
459	16.4	68.3	32339	8	US-10-719-993-6956	Sequence 6956, Ap							
460	16.4	68.3	54334	8	US-10-719-993-6790	Sequence 6790, Ap							
461	16.4	68.3	109453	8	US-10-388-838-81	Sequence 81, App1							

ALIGNMENTS

RESULT 1  
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; Sequence 7, Application US/10805973  
; Publication No. US20050208506A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhao, Chengyan  
; APPLICANT: Ascenzi, Robert  
; APPLICANT: Singh, Bijay K.  
; TITLE OF INVENTION: Methods and Compositions for Analyzing  
; TITLE OF INVENTION: AHASL Genes  
; FILE REFERENCE: 038867/271254  
; CURRENT APPLICATION NUMBER: US/10/805, 973  
; CURRENT FILING DATE: 2004-03-22  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 24  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer 1D-R  
US-10-805-973-7  
Query Match 100.0%; Score 24; DB 9; Length 24;  
Best Local Similarity 100.0%; Pred. No. 1;  
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 GCACATCCCTACAAAGAGAGAT 24  
|||||

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:08:01 ; Search time 177.941 Seconds  
(without alignments)  
123.418 Million cell updates/sec

Title: US-10-805-973-7

Perfect score: 24

Sequence: 1 gcacatccctacaaagaagat 24

Scoring table: IDENTITY\_NUC

Gapop 10\_0 , Gapext 1.0

Searched: 6247088 seqs, 457523669 residues

Total number of hits satisfying chosen parameters: 12494176

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : Published Applications\_NA\_New.\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	ID	Description
1	18.2	75.8	2857	US-11-136-527-360
2	18.2	75.8	155515	US-11-112-908-42
3	18.2	75.8	159660	US-11-112-908-43
4	18.2	75.8	177623	US-11-112-908-41
5	17.8	74.2	50	US-11-175-859-88875
6	17.6	73.3	1415	US-10-750-185-37943
7	17.6	73.3	1415	US-10-750-623-37943
8	17.2	71.7	201	US-10-995-561-25441
9	17.2	71.7	201	US-10-995-561-25570
10	17.2	71.7	201	US-11-124-368A-8479
11	17.2	71.7	201	US-11-124-368A-8479
12	17.2	71.7	201	US-11-124-367A-9067
13	17.2	71.7	201	US-11-124-367A-21619
14	17.2	71.7	76427	US-11-134-367A-5041
15	17.2	71.7	91561	US-11-124-368A-2896
16	17.2	71.7	93112	US-10-995-561-13234
17	17.2	71.7	138821	US-11-121-086-80
18	16.8	70.0	50	US-11-175-859-23767
19	16.8	70.0	201	US-10-995-561-30479
20	16.8	70.0	201	US-10-995-561-77650
21	16.8	70.0	1598	US-10-750-185-52365

22	16.8	70.0	1598	7	US-10-750-623-52365	Sequence 52365, A
23	16.8	70.0	3001	11	US-11-145-703-158	Sequence 158, App
24	16.8	70.0	187786	7	US-10-995-561-13474	Sequence 13474, A
25	16.8	70.0	187986	7	US-10-995-561-13252	Sequence 13252, A
26	16.6	69.2	833	7	US-10-750-185-64027	Sequence 64027, A
27	16.6	69.2	833	7	US-10-750-623-64027	Sequence 64027, A
28	16.6	69.2	1045	7	US-10-750-185-54402	Sequence 54402, A
29	16.6	69.2	1045	7	US-10-750-623-54402	Sequence 54402, A
30	16.6	69.2	1058	7	US-10-750-185-27499	Sequence 27499, A
31	16.6	69.2	1058	7	US-10-750-623-27499	Sequence 27499, A
32	16.6	69.2	1916	7	US-10-750-185-25516	Sequence 25516, A
33	16.6	69.2	1916	7	US-10-750-623-25516	Sequence 25516, A
34	16.6	69.2	3044	7	US-10-750-185-26837	Sequence 26837, A
35	16.6	69.2	3044	7	US-10-750-623-26837	Sequence 26837, A
36	16.6	69.2	5099	11	US-11-091-883-440	Sequence 440, App
37	16.6	69.2	20320	7	US-10-995-561-13287	Sequence 13287, A
38	16.6	69.2	23063	7	US-10-995-561-13447	Sequence 13447, A
39	16.6	69.2	156297	11	US-11-121-086-65	Sequence 65, Appl
40	16.6	69.2	196200	11	US-11-121-086-9	Sequence 9, Appl
41	16.6	69.2	246960	11	US-11-121-086-8	Sequence 8, Appl
42	16.6	69.2	321019	7	US-10-995-561-13204	Sequence 13204, A
43	16.6	69.2	387780	7	US-10-995-561-13259	Sequence 13259, A
44	16.4	68.3	1255	7	US-10-750-185-55297	Sequence 55297, A
45	16.4	68.3	1255	7	US-10-750-623-55297	Sequence 55297, A
46	16.2	67.5	23	7	US-10-310-914A-212419	Sequence 212419, A
47	16.2	67.5	50	11	US-11-175-859-37535	Sequence 37535, A
48	16.2	67.5	201	7	US-10-995-561-59413	Sequence 59413, A
49	16.2	67.5	201	11	US-11-124-368A-17299	Sequence 17299, A
50	16.2	67.5	600	11	US-11-128-061-3869	Sequence 3869, Ap
51	16.2	67.5	600	11	US-11-128-049-3869	Sequence 3869, Ap
52	16.2	67.5	611	11	US-11-128-061-227	Sequence 227, App
53	16.2	67.5	611	11	US-11-128-049-227	Sequence 227, App
54	16.2	67.5	2572	11	US-11-024-959-11	Sequence 11, Appl
55	16.2	67.5	83528	7	US-10-995-561-13343	Sequence 13343, A
56	16.2	67.5	195235	7	US-10-995-561-13495	Sequence 13495, A
57	16.2	67.5	218821	11	US-11-121-086-31	Sequence 31, Appl
58	16	66.7	201	11	US-11-124-368A-10114	Sequence 10114, A
59	16	66.7	600	7	US-10-750-185-4294	Sequence 4294, Ap
60	16	66.7	600	7	US-10-750-623-4294	Sequence 4294, Ap
61	16	66.7	1119	7	US-10-750-185-56219	Sequence 56219, A
62	16	66.7	1119	7	US-10-750-623-56219	Sequence 56219, A
63	16	66.7	1686	7	US-10-750-185-39243	Sequence 39243, A
64	16	66.7	1686	7	US-10-750-623-39243	Sequence 39243, A
65	16	66.7	3076	7	US-10-750-185-37300	Sequence 37300, A
66	16	66.7	3076	7	US-10-750-623-37300	Sequence 37300, A
67	16	66.7	4214	7	US-10-750-185-38533	Sequence 38533, A
68	16	66.7	4214	7	US-10-750-623-38533	Sequence 38533, A
69	16	66.7	53332	7	US-10-786-065-3	Sequence 3, Appl
70	16	66.7	137671	11	US-11-121-086-47	Sequence 47, Appl
71	16	66.7	163162	11	US-11-121-086-66	Sequence 66, Appl
72	16	66.7	167116	11	US-11-121-086-44	Sequence 44, Appl
73	15.8	65.8	1087	7	US-10-750-185-43329	Sequence 43329, A
74	15.8	65.8	1087	7	US-10-750-623-43329	Sequence 43329, A
75	15.8	65.8	1410	7	US-10-750-185-64102	Sequence 64102, A
76	15.8	65.8	1410	7	US-10-750-623-64102	Sequence 64102, A
77	15.8	65.8	1520	7	US-10-750-185-36183	Sequence 36183, A
78	15.8	65.8	1520	7	US-10-750-623-36183	Sequence 36183, A
79	15.8	65.8	1885	7	US-10-750-185-54854	Sequence 54854, A
80	15.8	65.8	1885	7	US-10-750-623-54854	Sequence 54854, A
81	15.8	65.8	2074	7	US-10-750-185-48086	Sequence 48086, A
82	15.8	65.8	2074	7	US-10-750-623-48086	Sequence 48086, A
83	15.8	65.8	3138	8	US-11-072-512-83	Sequence 83, Appl
84	15.8	65.8	28536	11	US-11-011-332A-156	Sequence 156, App
85	15.8	65.8	34554	6	US-10-893-483-49	Sequence 49, Appl
86	15.8	65.8	42060	11	US-11-124-367A-5040	Sequence 5040, Ap
87	15.8	65.8	175673	11	US-11-121-086-55	Sequence 55, Appl
88	15.8	65.8	1125000	7	US-10-995-561-13286	Sequence 13286, A
89	15.6	65.0	25	11	US-11-121-849-388224	Sequence 388224, A
90	15.6	65.0	25	11	US-11-136-527-262453	Sequence 262453, A
91	15.6	65.0	50	11	US-11-175-859-78995	Sequence 78995, A
92	15.6	65.0	71	7	US-10-518-043-2	Sequence 2, Appl
93	15.6	65.0	201	7	US-10-995-561-39883	Sequence 39883, A
94	15.6	65.0	201	7	US-10-995-561-39884	Sequence 39884, A



C 95	15.6	65.0	201	7	US-10-995-561-39885	Sequence 39885, A	C 168	15.6	65.0	3167	7	US-10-750-185-52073	Sequence 52073, A
C 96	15.6	65.0	201	7	US-10-995-561-46735	Sequence 46735, A	C 169	15.6	65.0	3167	7	US-10-750-623-52073	Sequence 52073, A
C 97	15.6	65.0	201	7	US-10-995-561-47985	Sequence 47985, A	C 170	15.6	65.0	3871	8	US-11-203-330-3	Sequence 3, Appli
C 98	15.6	65.0	201	7	US-10-995-561-47988	Sequence 47988, A	C 171	15.6	65.0	4102	11	US-11-132-219-1	Sequence 1, Appli
C 99	15.6	65.0	201	7	US-10-995-561-71401	Sequence 71401, A	C 172	15.6	65.0	7216	11	US-11-136-527-290	Sequence 290, App
C 100	15.6	65.0	201	7	US-10-995-561-717814	Sequence 717814, A	C 173	15.6	65.0	8399	11	US-11-136-527-326	Sequence 326, App
C 101	15.6	65.0	201	7	US-10-995-561-78967	Sequence 78967, A	C 174	15.6	65.0	8553	11	US-11-136-527-229	Sequence 229, App
C 102	15.6	65.0	201	7	US-10-995-561-78983	Sequence 78983, A	C 175	15.6	65.0	14620	11	US-11-044-111-17	Sequence 17, Appl
C 103	15.6	65.0	201	11	US-11-124-367A-22895	Sequence 22895, A	C 176	15.6	65.0	35100	11	US-11-127-832-26	Sequence 26, Appl
C 104	15.6	65.0	201	11	US-11-124-367A-30948	Sequence 30948, A	C 177	15.6	65.0	54946	7	US-10-995-561-13479	Sequence 13479, A
C 105	15.6	65.0	201	11	US-11-124-367A-30949	Sequence 30949, A	C 178	15.6	65.0	59110	7	US-10-995-561-13324	Sequence 13324, A
C 106	15.6	65.0	201	11	US-11-124-367A-30950	Sequence 30950, A	C 179	15.6	65.0	61487	11	US-11-124-367A-5103	Sequence 5103, A
C 107	15.6	65.0	404	11	US-11-112-908-206	Sequence 206, App	C 180	15.6	65.0	65723	7	US-10-995-561-13200	Sequence 13200, A
C 108	15.6	65.0	429	11	US-11-128-061-2407	Sequence 2407, App	C 181	15.6	65.0	67467	11	US-11-124-368A-2889	Sequence 2889, Ap
C 109	15.6	65.0	429	11	US-11-128-061-6049	Sequence 6049, App	C 182	15.6	65.0	71634	11	US-11-124-368A-2924	Sequence 2924, Ap
C 110	15.6	65.0	429	11	US-11-128-049-2407	Sequence 2407, App	C 183	15.6	65.0	95050	7	US-10-857-780-7	Sequence 7, Appli
C 111	15.6	65.0	429	11	US-11-128-049-6049	Sequence 6049, App	C 184	15.6	65.0	98716	7	US-10-995-561-13331	Sequence 13331, A
C 112	15.6	65.0	566	11	US-11-128-061-2376	Sequence 2376, App	C 185	15.6	65.0	100000	11	US-11-124-367A-5072	Sequence 5072, Ap
C 113	15.6	65.0	566	11	US-11-128-061-6018	Sequence 6018, App	C 186	15.6	65.0	126552	11	US-11-121-086-1	Sequence 1, Appli
C 114	15.6	65.0	566	11	US-11-128-049-2376	Sequence 2376, App	C 187	15.6	65.0	128978	7	US-10-775-169-345	Sequence 345, App
C 115	15.6	65.0	566	11	US-11-128-049-6018	Sequence 6018, App	C 188	15.6	65.0	148935	7	US-10-995-561-13308	Sequence 13308, A
C 116	15.6	65.0	578	11	US-11-128-061-2866	Sequence 2866, App	C 189	15.6	65.0	150437	11	US-11-112-908-44	Sequence 44, Appl
C 117	15.6	65.0	578	11	US-11-128-061-6508	Sequence 6508, App	C 190	15.6	65.0	150491	11	US-11-112-908-38	Sequence 38, Appl
C 118	15.6	65.0	578	11	US-11-128-049-2866	Sequence 2866, App	C 191	15.6	65.0	151870	7	US-10-995-561-13199	Sequence 13199, A
C 119	15.6	65.0	578	11	US-11-128-049-6508	Sequence 6508, App	C 192	15.6	65.0	151870	7	US-10-995-561-13199	Sequence 13199, A
C 120	15.6	65.0	600	7	US-10-750-185-60	Sequence 60, Appl	C 193	15.6	65.0	164810	11	US-11-121-086-4	Sequence 4, Appli
C 121	15.6	65.0	600	7	US-10-750-185-592	Sequence 592, App	C 194	15.6	65.0	165857	11	US-11-121-086-34	Sequence 34, Appl
C 122	15.6	65.0	600	7	US-10-750-185-856	Sequence 856, App	C 195	15.6	65.0	170837	11	US-11-121-086-97	Sequence 97, Appl
C 123	15.6	65.0	600	7	US-10-750-185-19901	Sequence 19901, A	C 196	15.6	65.0	171162	11	US-11-112-908-38	Sequence 38, Appl
C 124	15.6	65.0	600	7	US-10-750-623-60	Sequence 60, Appl	C 197	15.6	65.0	172147	11	US-11-112-908-22	Sequence 22, Appl
C 125	15.6	65.0	600	7	US-10-750-623-592	Sequence 592, App	C 198	15.6	65.0	172543	11	US-11-121-086-6	Sequence 6, Appli
C 126	15.6	65.0	600	7	US-10-750-623-856	Sequence 856, App	C 199	15.6	65.0	175023	11	US-11-121-086-18	Sequence 18, Appl
C 127	15.6	65.0	600	7	US-10-750-623-19901	Sequence 19901, A	C 200	15.6	65.0	176760	11	US-11-121-086-51	Sequence 51, Appl
C 128	15.6	65.0	905	11	US-11-136-527-1442	Sequence 1442, App	C 201	15.6	65.0	182314	11	US-11-112-908-45	Sequence 45, Appl
C 129	15.6	65.0	905	11	US-11-136-527-5538	Sequence 5538, App	C 202	15.6	65.0	182314	11	US-11-112-908-45	Sequence 45, Appl
C 130	15.6	65.0	958	7	US-10-750-185-45720	Sequence 45720, A	C 203	15.6	65.0	185393	11	US-11-121-086-101	Sequence 101, App
C 131	15.6	65.0	958	7	US-10-750-623-45720	Sequence 45720, A	C 204	15.6	65.0	187745	11	US-11-121-086-83	Sequence 83, Appl
C 132	15.6	65.0	960	7	US-10-750-185-39976	Sequence 39976, A	C 205	15.6	65.0	189056	11	US-11-120-925-1	Sequence 1, Appli
C 133	15.6	65.0	960	7	US-10-750-623-39976	Sequence 39976, A	C 206	15.6	65.0	197096	11	US-11-121-086-107	Sequence 107, App
C 134	15.6	65.0	982	7	US-10-750-185-62103	Sequence 62103, A	C 207	15.6	65.0	198161	7	US-10-775-169-52	Sequence 52, Appl
C 135	15.6	65.0	982	7	US-10-750-623-62103	Sequence 62103, A	C 208	15.6	65.0	201990	7	US-10-995-561-13303	Sequence 13303, A
C 136	15.6	65.0	1081	7	US-10-750-185-39830	Sequence 39830, A	C 209	15.6	65.0	212805	11	US-11-112-908-19	Sequence 19, Appl
C 137	15.6	65.0	1081	7	US-10-750-623-39830	Sequence 39830, A	C 210	15.6	65.0	387780	7	US-10-995-561-13259	Sequence 13259, A
C 138	15.6	65.0	1134	7	US-10-750-185-60933	Sequence 60933, A	C 211	15.6	65.0	403278	7	US-10-995-561-13421	Sequence 13421, A
C 139	15.6	65.0	1134	7	US-10-750-623-60933	Sequence 60933, A	C 212	15.6	65.0	645179	7	US-10-995-561-13293	Sequence 13293, A
C 140	15.6	65.0	1134	7	US-10-750-623-62584	Sequence 62584, A	C 213	15.6	65.0	1080000	7	US-10-928-446A-1	Sequence 1, Appli
C 141	15.6	65.0	1263	7	US-10-750-185-38031	Sequence 38031, A	C 214	15.6	65.0	1080000	7	US-10-928-446A-181	Sequence 181, App
C 142	15.6	65.0	1263	7	US-10-750-623-38031	Sequence 38031, A	C 215	15.6	65.0	1080000	7	US-10-928-446A-183	Sequence 183, App
C 143	15.6	65.0	1485	7	US-10-750-185-26181	Sequence 26181, A	C 216	15.6	65.0	1080000	7	US-10-928-446A-185	Sequence 185, App
C 144	15.6	65.0	1485	7	US-10-750-623-26181	Sequence 26181, A	C 217	15.6	65.0	1080000	7	US-10-928-446A-187	Sequence 187, App
C 145	15.6	65.0	1525	7	US-10-750-185-29327	Sequence 29327, A	C 218	15.6	65.0	1080000	7	US-10-928-446A-189	Sequence 189, App
C 146	15.6	65.0	1525	7	US-10-750-623-29327	Sequence 29327, A	C 219	15.6	65.0	1080000	7	US-10-928-446A-191	Sequence 191, App
C 147	15.6	65.0	1525	7	US-10-750-185-46633	Sequence 46633, A	C 220	15.6	65.0	1080000	7	US-10-928-446A-193	Sequence 193, App
C 148	15.6	65.0	1672	7	US-10-750-623-46633	Sequence 46633, A	C 221	15.6	65.0	1080000	7	US-10-928-446A-195	Sequence 195, App
C 149	15.6	65.0	1827	7	US-10-750-185-34195	Sequence 34195, A	C 222	15.6	65.0	1080000	7	US-10-928-446A-197	Sequence 197, App
C 150	15.6	65.0	1827	7	US-10-750-623-34195	Sequence 34195, A	C 223	15.6	65.0	1080000	7	US-10-928-446A-199	Sequence 199, App
C 151	15.6	65.0	1897	7	US-10-750-185-38355	Sequence 38355, A	C 224	15.6	65.0	1080000	7	US-10-928-446A-201	Sequence 201, App
C 152	15.6	65.0	1897	7	US-10-750-623-38355	Sequence 38355, A	C 225	15.6	65.0	1691140	11	US-11-091-018-1	Sequence 1, Appli
C 153	15.6	65.0	2001	11	US-11-043-759-3889	Sequence 3889, App	C 226	15.4	64.2	50	11	US-11-175-859-65089	Sequence 65089, A
C 154	15.6	65.0	2067	7	US-10-750-185-63325	Sequence 63325, A	C 227	15.4	64.2	2015	8	US-11-072-175-118	Sequence 118, App
C 155	15.6	65.0	2067	7	US-10-750-623-63325	Sequence 63325, A	C 228	15.4	64.2	15095	6	US-10-893-483-117	Sequence 117, App
C 156	15.6	65.0	2365	8	US-11-072-512-507	Sequence 507, App	C 229	15.4	64.2	165857	11	US-11-121-086-34	Sequence 34, Appl
C 157	15.6	65.0	2517	7	US-10-750-185-34286	Sequence 34286, A	C 230	15.4	64.2	199130	7	US-10-995-561-13233	Sequence 13233, A
C 158	15.6	65.0	2517	7	US-10-750-623-34286	Sequence 34286, A	C 231	15.4	64.2	645179	7	US-10-995-561-13293	Sequence 13293, A
C 159	15.6	65.0	2517	7	US-10-750-185-64445	Sequence 64445, A	C 232	15.2	63.3	25	21	US-10-310-914A-962463	Sequence 962463,
C 160	15.6	65.0	2586	7	US-10-750-623-64445	Sequence 64445, A	C 233	15.2	63.3	25	21	US-11-121-849-296068	Sequence 296068,
C 161	15.6	65.0	2673	7	US-10-750-185-31156	Sequence 31156, A	C 234	15.2	63.3	40	11	US-11-065-716-47	Sequence 47, Appl
C 162	15.6	65.0	2673	7	US-10-750-623-31156	Sequence 31156, A	C 235	15.2	63.3	200	11	US-11-098-686-2291	Sequence 2291, App
C 163	15.6	65.0	3054	11	US-11-192-219-5	Sequence 5, Appli	C 236	15.2	63.3	201	7	US-10-995-561-2333	Sequence 2333, A
C 164	15.6	65.0	3054	11	US-10-750-623-31156	Sequence 5, Appli	C 237	15.2	63.3	201	7	US-10-995-561-51739	Sequence 51739, A
C 165	15.6	65.0	3054	7	US-10-750-185-47551	Sequence 47551, A	C 238	15.2	63.3	201	7	US-10-995-561-53686	Sequence 53686, A
C 166	15.6	65.0	3054	7	US-10-750-623-47551	Sequence 47551, A	C 239	15.2	63.3	201	7	US-10-995-561-53776	Sequence 53776, A
C 167	15.6	65.0	3102	11	US-11-192-219-6	Sequence 6, Appli	C 240	15.2	63.3	201	7	US-10-995-561-53820	Sequence 53820, A



241	15.2	63.3	201	7	US-10-995-561-53873	Sequence 53873, A	314	15.2	63.3	180862	11	US-11-112-908-40	Sequence 40, Appl
242	15.2	63.3	201	7	US-10-995-561-55939	Sequence 55939, A	315	15.2	63.3	186442	11	US-11-121-086-104	Sequence 104, Appl
243	15.2	63.3	201	7	US-10-995-561-57284	Sequence 57284, A	316	15.2	63.3	200628	11	US-11-121-086-62	Sequence 62, Appl
244	15.2	63.3	201	7	US-10-995-561-78307	Sequence 78307, A	317	15.2	63.3	214000	11	US-10-769-744-1	Sequence 1, Appl
245	15.2	63.3	201	11	US-11-124-367A-6415	Sequence 6415, Ap	318	15.2	63.3	214000	11	US-11-096-191-1	Sequence 1, Appl
246	15.2	63.3	396	7	US-10-769-744-602	Sequence 602, App	319	15.2	63.3	222094	7	US-10-995-561-13244	Sequence 13244, A
247	15.2	63.3	396	7	US-10-769-744-603	Sequence 603, App	320	15.2	63.3	241196	7	US-10-995-561-13327	Sequence 13327, A
248	15.2	63.3	396	7	US-10-769-744-604	Sequence 604, App	321	15.2	63.3	317876	7	US-10-995-561-13327	Sequence 13327, A
249	15.2	63.3	396	7	US-10-769-744-605	Sequence 605, App	322	15.2	63.3	394468	7	US-10-995-561-13473	Sequence 13473, A
250	15.2	63.3	396	7	US-10-769-744-606	Sequence 606, App	323	15.2	63.3	398287	7	US-10-995-561-13396	Sequence 13396, A
251	15.2	63.3	396	7	US-10-769-744-607	Sequence 607, App	324	15.2	63.3	1457619	11	US-11-098-686-8739	Sequence 8739, Ap
252	15.2	63.3	396	11	US-11-096-191-710	Sequence 710, App	325	15.2	62.5	24	7	US-10-310-914A-101139	Sequence 101139, A
253	15.2	63.3	396	11	US-11-096-191-711	Sequence 711, App	326	15.2	62.5	25	11	US-11-121-849-370855	Sequence 370855, A
254	15.2	63.3	396	11	US-11-096-191-712	Sequence 712, App	327	15.2	62.5	25	11	US-11-136-527-144876	Sequence 144876, A
255	15.2	63.3	396	11	US-11-096-191-713	Sequence 713, App	328	15.2	62.5	201	7	US-10-995-561-15011	Sequence 15011, A
256	15.2	63.3	396	11	US-11-096-191-714	Sequence 714, App	329	15.2	62.5	201	7	US-10-995-561-27885	Sequence 27885, A
257	15.2	63.3	396	11	US-11-096-191-715	Sequence 715, App	330	15.2	62.5	201	7	US-10-995-561-28576	Sequence 28576, A
258	15.2	63.3	663	7	US-10-750-185-24942	Sequence 24942, A	331	15.2	62.5	201	7	US-10-995-561-28579	Sequence 28579, A
259	15.2	63.3	663	7	US-10-750-623-24942	Sequence 24942, A	332	15.2	62.5	201	7	US-10-995-561-39758	Sequence 39758, A
260	15.2	63.3	744	7	US-10-750-185-54343	Sequence 54343, A	333	15.2	62.5	201	7	US-10-995-561-42991	Sequence 42991, A
261	15.2	63.3	744	7	US-10-750-623-54343	Sequence 54343, A	334	15.2	62.5	201	7	US-10-995-561-44295	Sequence 44295, A
262	15.2	63.3	789	11	US-11-098-686-9037	Sequence 9037, Ap	335	15.2	62.5	201	7	US-10-995-561-58338	Sequence 58338, A
263	15.2	63.3	811	11	US-11-112-908-86	Sequence 86, Appl	336	15.2	62.5	201	7	US-10-995-561-63482	Sequence 63482, A
264	15.2	63.3	1079	7	US-10-750-185-35477	Sequence 35477, A	337	15.2	62.5	201	7	US-10-995-561-63634	Sequence 63634, A
265	15.2	63.3	1079	7	US-10-750-623-35477	Sequence 35477, A	338	15.2	62.5	201	11	US-11-124-368A-13436	Sequence 13436, Ap
266	15.2	63.3	1167	7	US-10-750-185-45529	Sequence 45529, A	339	15.2	62.5	201	11	US-11-124-367A-8290	Sequence 8290, Ap
267	15.2	63.3	1167	7	US-10-750-623-45529	Sequence 45529, A	340	15.2	62.5	201	11	US-11-124-367A-8291	Sequence 8291, Ap
268	15.2	63.3	1173	8	US-11-245-147-78	Sequence 78, Appl	341	15.2	62.5	201	11	US-11-124-367A-8292	Sequence 8292, Ap
269	15.2	63.3	1383	7	US-10-750-185-54159	Sequence 54159, A	342	15.2	62.5	201	11	US-11-124-367A-8293	Sequence 8293, Ap
270	15.2	63.3	1383	7	US-10-750-623-54159	Sequence 54159, A	343	15.2	62.5	201	11	US-11-124-367A-8294	Sequence 8294, Ap
271	15.2	63.3	1441	7	US-10-750-185-41253	Sequence 41253, A	344	15.2	62.5	201	11	US-11-124-367A-8294	Sequence 8294, Ap
272	15.2	63.3	1441	7	US-10-750-623-41253	Sequence 41253, A	345	15.2	62.5	201	11	US-11-124-367A-13345	Sequence 13345, A
273	15.2	63.3	1484	7	US-10-750-185-57622	Sequence 57622, A	346	15.2	62.5	201	11	US-11-124-367A-13432	Sequence 13432, A
274	15.2	63.3	1484	7	US-10-750-623-57622	Sequence 57622, A	347	15.2	62.5	201	11	US-11-124-367A-16657	Sequence 16657, A
275	15.2	63.3	1558	7	US-10-750-185-54156	Sequence 54156, A	348	15.2	62.5	201	11	US-11-124-367A-16658	Sequence 16658, A
276	15.2	63.3	1558	7	US-10-750-623-54156	Sequence 54156, A	349	15.2	62.5	201	11	US-11-124-367A-16659	Sequence 16659, A
277	15.2	63.3	1615	7	US-10-750-185-44995	Sequence 44995, A	350	15.2	62.5	201	11	US-11-124-367A-16660	Sequence 16660, A
278	15.2	63.3	1615	7	US-10-750-623-44995	Sequence 44995, A	351	15.2	62.5	201	11	US-11-124-367A-16661	Sequence 16661, A
279	15.2	63.3	1677	7	US-10-750-185-55633	Sequence 55633, A	352	15.2	62.5	201	11	US-11-124-367A-25301	Sequence 25301, A
280	15.2	63.3	1677	7	US-10-750-623-55633	Sequence 55633, A	353	15.2	62.5	201	11	US-11-124-367A-25301	Sequence 25301, A
281	15.2	63.3	1777	11	US-11-136-527-2619	Sequence 2619, Ap	354	15.2	62.5	201	11	US-11-124-367A-25301	Sequence 25301, A
282	15.2	63.3	1909	7	US-10-750-185-44842	Sequence 44842, A	355	15.2	62.5	201	11	US-11-124-367A-29445	Sequence 29445, A
283	15.2	63.3	1909	7	US-10-750-623-44842	Sequence 44842, A	356	15.2	62.5	201	11	US-11-124-367A-32445	Sequence 32445, A
284	15.2	63.3	2043	7	US-10-775-169-257	Sequence 257, App	357	15.2	62.5	394	11	US-11-108-172-459	Sequence 459, App
285	15.2	63.3	2293	7	US-10-750-185-42170	Sequence 42170, A	358	15.2	62.5	579	11	US-11-128-061-1321	Sequence 1321, Ap
286	15.2	63.3	2293	7	US-10-750-623-42170	Sequence 42170, A	359	15.2	62.5	579	11	US-11-128-061-4963	Sequence 4963, Ap
287	15.2	63.3	2613	7	US-10-750-185-42211	Sequence 42211, A	360	15.2	62.5	579	11	US-11-128-049-1321	Sequence 1321, Ap
288	15.2	63.3	2613	7	US-10-750-623-42211	Sequence 42211, A	361	15.2	62.5	600	7	US-10-750-185-4963	Sequence 4963, Ap
289	15.2	63.3	2625	8	US-11-072-512-1026	Sequence 1026, Ap	362	15.2	62.5	600	7	US-10-750-185-3790	Sequence 3790, Ap
290	15.2	63.3	2685	11	US-11-000-688-270	Sequence 270, App	363	15.2	62.5	600	7	US-10-750-185-19933	Sequence 19933, A
291	15.2	63.3	3965	7	US-10-750-185-27107	Sequence 27107, A	364	15.2	62.5	600	7	US-10-750-185-20069	Sequence 20069, A
292	15.2	63.3	3965	7	US-10-750-623-27107	Sequence 27107, A	365	15.2	62.5	600	7	US-10-750-623-3790	Sequence 3790, Ap
293	15.2	63.3	4589	7	US-10-750-185-62517	Sequence 62517, A	366	15.2	62.5	600	7	US-10-750-623-19933	Sequence 19933, A
294	15.2	63.3	4589	7	US-10-750-623-62517	Sequence 62517, A	367	15.2	62.5	600	11	US-11-128-061-4771	Sequence 4771, Ap
295	15.2	63.3	4875	7	US-10-750-185-44035	Sequence 44035, A	368	15.2	62.5	600	11	US-11-128-049-4771	Sequence 4771, Ap
296	15.2	63.3	4875	7	US-10-750-623-44035	Sequence 44035, A	369	15.2	62.5	655	7	US-10-750-185-46424	Sequence 46424, A
297	15.2	63.3	14724	11	US-11-124-367A-5094	Sequence 5094, Ap	370	15.2	62.5	655	7	US-10-750-623-46424	Sequence 46424, A
298	15.2	63.3	14302	11	US-11-136-527-3649	Sequence 3649, Ap	371	15.2	62.5	724	7	US-10-947-249-50	Sequence 50, Appl
299	15.2	63.3	31320	7	US-10-995-561-13309	Sequence 13309, A	372	15.2	62.5	744	7	US-10-750-185-41545	Sequence 41545, A
300	15.2	63.3	32070	7	US-10-995-561-13317	Sequence 13317, A	373	15.2	62.5	744	7	US-10-750-623-41545	Sequence 41545, A
301	15.2	63.3	40439	7	US-10-993-509-1	Sequence 1, Appl	374	15.2	62.5	779	7	US-10-750-185-49377	Sequence 49377, A
302	15.2	63.3	53331	7	US-10-995-561-13476	Sequence 13476, A	375	15.2	62.5	779	7	US-10-750-623-49377	Sequence 49377, A
303	15.2	63.3	67467	11	US-11-124-368A-2889	Sequence 2889, Ap	376	15.2	62.5	816	7	US-10-750-185-63180	Sequence 63180, A
304	15.2	63.3	73072	11	US-11-124-368A-2919	Sequence 2919, Ap	377	15.2	62.5	816	7	US-10-750-623-63180	Sequence 63180, A
305	15.2	63.3	88116	7	US-10-995-561-13351	Sequence 13351, A	378	15.2	62.5	831	7	US-10-750-185-45342	Sequence 45342, A
306	15.2	63.3	98716	7	US-10-995-561-13331	Sequence 13331, A	379	15.2	62.5	831	7	US-10-750-623-45342	Sequence 45342, A
307	15.2	63.3	110608	7	US-10-775-169-193	Sequence 193, App	380	15.2	62.5	888	7	US-10-750-185-64827	Sequence 64827, A
308	15.2	63.3	147700	7	US-10-857-780-3	Sequence 3, Appl	381	15.2	62.5	888	7	US-10-750-623-64827	Sequence 64827, A
309	15.2	63.3	156735	11	US-11-121-086-93	Sequence 93, Appl	382	15.2	62.5	912	7	US-10-750-185-28174	Sequence 28174, A
310	15.2	63.3	168810	11	US-11-121-086-4	Sequence 4, Appl	383	15.2	62.5	912	7	US-10-750-623-28174	Sequence 28174, A
311	15.2	63.3	168753	11	US-11-181-234-1	Sequence 1, Appl	384	15.2	62.5	993	7	US-10-750-185-58600	Sequence 58600, A
312	15.2	63.3	175416	11	US-11-121-086-43	Sequence 43, Appl	385	15.2	62.5	993	7	US-10-750-623-58600	Sequence 58600, A
313	15.2	63.3	176503	11	US-11-121-086-53	Sequence 53, Appl	386	15.2	62.5	1075	7	US-10-750-185-43629	Sequence 43629, A

C 387	15	62.5	1075	7	US-10-750-623-43629	A	Sequence 43629, A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 716.686 Seconds  
(without alignments)  
1586.285 Million cell updates/sec

Title: US-10-805-973-5

Perfect score: 20

Sequence: 1 gggaggcgatcattgccact 20

Scoring table:

IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

GenEmbl:\*

1: gb\_ba:\*

2: gb\_in:\*

3: gb\_env:\*

4: gb\_on:\*

5: gb\_ov:\*

6: gb\_pat:\*

7: gb\_ph:\*

8: gb\_pr:\*

9: gb\_ro:\*

10: gb\_sts:\*

11: gb\_sy:\*

12: gb\_un:\*

13: gb\_vi:\*

14: gb\_htg:\*

15: gb\_pl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	1524	6	AX705275 Sequence
2	20	100.0	1524	6	AX705305 Sequence
3	20	100.0	1674	6	AX705285 Sequence
4	20	100.0	1674	6	AX705287 Sequence
5	20	100.0	1674	6	AX705289 Sequence
6	20	100.0	1674	6	AX705291 Sequence
7	20	100.0	1675	6	AX705271 Sequence
8	20	100.0	1677	6	AX705293 Sequence
9	20	100.0	1797	15	AX210405 Triticum
10	20	100.0	1797	15	AX210407 Triticum
11	19	95.0	1524	6	AX705276 Sequence
12	19	95.0	1672	6	AX705273 Sequence
13	19	95.0	1674	6	AX705295 Sequence
14	19	95.0	1674	6	AX705297 Sequence
15	19	95.0	1674	6	AX705299 Sequence
16	19	95.0	1674	6	AX705301 Sequence
17	19	95.0	1674	6	AX705303 Sequence
18	19	95.0	1756	6	CQ969924 Sequence

19	19	95.0	1768	6	CQ969922	CQ969922 Sequence
20	19	95.0	1788	6	CQ969916	CQ969916 Sequence
21	19	95.0	1788	6	CQ969926	CQ969926 Sequence
22	19	95.0	1788	6	CQ969929	CQ969929 Sequence
23	19	95.0	1788	6	CQ969931	CQ969931 Sequence
24	19	95.0	1788	6	CQ969934	CQ969934 Sequence
25	19	95.0	1797	15	AY210406	AY210406 Triticum
26	19	95.0	1797	15	AY210408	AY210408 Triticum
27	19	95.0	2002	15	AF487459	AF487459 Bromus te
28	19	95.0	2002	15	AF488771	AF488771 Bromus te
29	18.4	92.0	617	15	AY273827	AY273827 Triticum
30	18.4	92.0	1524	6	AX705277	AX705277 Sequence
31	18.4	92.0	1710	6	CQ969938	CQ969938 Sequence
32	18.4	92.0	1723	6	CQ969920	CQ969920 Sequence
33	18.4	92.0	1788	6	CQ969928	CQ969928 Sequence
34	18.4	92.0	1788	6	CQ969930	CQ969930 Sequence
35	18.4	92.0	1788	6	CQ969932	CQ969932 Sequence
36	18.4	92.0	1788	6	CQ969936	CQ969936 Sequence
37	18.4	92.0	213473	9	AC134869	AC134869 Mus muscu
38	17.4	87.0	676	6	AX006313	AX006313 Sequence
39	17.4	87.0	1626	15	AF059600	AF059600 Hordeum v
40	17.4	87.0	2544	15	ZMAHAS109	X63554 Z. mays gene
41	17.4	87.0	3309	11	AX888076	AX888076 Synthetic
42	17.4	87.0	3410	8	CQ796784	CQ796784 Sequence
43	17.4	87.0	3410	8	AF327656	AF327656 Homo sapi
44	17.4	87.0	3860	8	BC035683	BC035683 Homo sapi
45	17.4	87.0	4134	6	A50263	A50263 Sequence 1
46	17.4	87.0	4137	6	A50265	A50265 Sequence 3
47	17.4	87.0	5162	6	AR026677	AR026677 Sequence
48	17.4	87.0	5214	8	HSM808489	BX648441 Homo sapi
49	17.4	87.0	5378	6	CQ715912	CQ715912 Sequence
50	17.4	87.0	5379	6	CS032001	CS032001 Sequence
51	17.4	87.0	5397	6	CS040953	CS040953 Sequence
52	17.4	87.0	5397	6	AX327655	AX327655 Sequence
53	17.4	87.0	5397	8	HSIDEM	X83368 H. sapiens m
54	17.4	87.0	107527	8	AC005018	AC005018 Homo sapi
55	17.4	87.0	186349	14	AC073420	AC073420 Homo sapi
56	17.4	87.0	189705	8	AC147093	AC147093 Pan trogl
57	16.8	84.0	1995	15	AF310684	AF310684 Lolium mu
58	16.8	84.0	2184	2	AF109778	AF109778 Metapenae
59	16.8	84.0	2340	2	AF109777	AF109777 Metapenae
60	16.8	84.0	3705	2	AF109776	AF109776 Metapenae
61	16.8	84.0	110000	1	CP000031	Continuation (16 o
62	16.8	84.0	110000	14	CT005271	Continuation (27 o
63	16.8	84.0	114419	8	AC106776	AC106776 Homo sapi
64	16.8	84.0	126422	14	AC162133	AC162133 Loxodonta
65	16.8	84.0	127243	8	AL359545	AL359545 Human DNA
66	16.8	84.0	143684	14	AC107323	AC107323 Felis cat
67	16.8	84.0	155332	9	AC154814	AC154814 Mus muscu
68	16.8	84.0	157711	8	AC055738	AC055738 Homo sapi
69	16.8	84.0	166952	14	AC160231	AC160231 Loxodonta
70	16.8	84.0	171280	14	AC024186	AC024186 Homo sapi
71	16.8	84.0	182246	14	AC163796	AC163796 Bos tauru
72	16.8	84.0	185573	9	AC127279	AC127279 Mus muscu
73	16.8	84.0	207945	8	CNS01DSS	AL121841 Human chr
74	16.8	84.0	209426	14	AC100750	AC100750 Mus muscu
75	16.8	84.0	220684	14	CT010581	CT010581 Mus muscu
76	16.8	84.0	254050	1	AE627269	AE627269 Salmonell
77	16.8	84.0	300029	1	AE016839	AE016839 Salmonell
78	16.8	84.0	318442	14	AC021652	AC021652 Homo sapi
79	16.8	84.0	346301	1	BX640432	BX640432 Bordetell
80	16.8	84.0	348642	1	BX640446	BX640446 Bordetell
81	16.8	84.0	349672	1	BX640419	BX640419 Bordetell
82	16.4	82.0	878	2	AY175375	AY175375 Branchios
83	16.4	82.0	1249	2	AK116389	AK116389 Ciona int
84	16.4	82.0	1328	9	BC045525	BC045525 Mus muscu
85	16.4	82.0	1668	6	AR136027	AR136027 Sequence
86	16.4	82.0	1668	6	BD205739	BD205739 Process f
87	16.4	82.0	1668	6	BD007541	BD007541 Process o
88	16.4	82.0	1671	6	AR385458	AR385458 Sequence
89	16.4	82.0	2080	9	MMU249413	MMU249413 Mus muscu
90	16.4	82.0	2467	13	AF002732	AF002732 Cydia pom
91	16.4	82.0	3000	1	KPU60992	U60992 Klebsiella

92	16.4	82.0	3117	6	I16864	I16864 Sequence 3	165	15.8	79.0	2649	9	AK129446	AK129446 Mus muscu
93	16.4	82.0	3117	15	RSAC2	Z54276 R. solani ge	166	15.8	79.0	2767	9	BC014695	BC014695 Mus muscu
94	16.4	82.0	3342	9	AF208345	AF208345 Mus muscu	167	15.8	79.0	2781	9	BC092263	BC092263 Mus muscu
95	16.4	82.0	4330	9	BC051246	BC051246 Mus muscu	168	15.8	79.0	2848	6	CQ592955	CQ592955 Sequence
96	16.4	82.0	4725	6	MMU249280	AJ249280 Mus muscu	169	15.8	79.0	2992	5	BC049532	BC049532 Danio rer
c 97	16.4	82.0	5268	6	ARG35070	ARG35070 Sequence	c 170	15.8	79.0	3962	6	CQ849911	CQ849911 Sequence
c 98	16.4	82.0	7926	1	KPU30903	U30903 Klebsiella	c 171	15.8	79.0	3962	8	AK126979	AK126979 Homo sapi
c 99	16.4	82.0	10789	1	AE009731	AE009731 Brucella	c 172	15.8	79.0	4284	8	AK090472	AK090472 Homo sapi
c 100	16.4	82.0	11417	1	AE012546	AE012546 Xanthomon	c 173	15.8	79.0	4486	8	BC064980	BC064980 Homo sapi
101	16.4	82.0	12144	6	BD205743	BD205743 Process f	174	15.8	79.0	4486	8	BC091648	BC091648 Homo sapi
102	16.4	82.0	12145	6	AR136037	AR136037 Sequence	175	15.8	79.0	4492	6	BD127651	BD127651 Primer fo
103	16.4	82.0	12145	6	AR221788	AR221788 Sequence	176	15.8	79.0	4492	6	CQ783447	CQ783447 Sequence
104	16.4	82.0	12145	6	AX082621	AX082621 Sequence	177	15.8	79.0	4492	8	AK075305	AK075305 Homo sapi
105	16.4	82.0	12145	6	AX085388	AX085388 Sequence	178	15.8	79.0	4502	8	BC034039	BC034039 Homo sapi
106	16.4	82.0	12145	6	BD007551	BD007551 Process o	179	15.8	79.0	5057	4	AY197355	AY197355 Canis fam
107	16.4	82.0	13543	6	AR594222	AR594222 Sequence	180	15.8	79.0	5946	6	CQ587159	CQ587159 Sequence
108	16.4	82.0	13543	6	AX777142	AX777142 Sequence	181	15.8	79.0	6131	1	AY899910	AY899910 Arthrobac
c 109	16.4	82.0	18552	5	BX927259	BX927259 Zebrafish	c 182	15.8	79.0	6449	6	CQ718925	CQ718925 Sequence
c 110	16.4	82.0	97687	1	CP000030_11	Continuation (12 o	c 183	15.8	79.0	6450	6	CQ776378	CQ776378 Sequence
c 111	16.4	82.0	110000	1	CP000030_12	Continuation (26 o	c 184	15.8	79.0	6450	6	CS031279	CS031279 Sequence
c 112	16.4	82.0	110000	1	CP000030_126	Continuation (27 o	c 185	15.8	79.0	6450	6	CS040231	CS040231 Sequence
c 113	16.4	82.0	110000	1	RME591985_10	Continuation (11 o	c 186	15.8	79.0	6450	8	AB007938	AB007938 Homo sapi
c 114	16.4	82.0	110000	1	AE014292_02	Continuation (3 of	c 187	15.8	79.0	6796	6	CQ596127	CQ596127 Sequence
c 115	16.4	82.0	110000	1	AE017224_09	Continuation (10 o	c 188	15.8	79.0	8202	2	DN000000	DN000000 Sequence
c 116	16.4	82.0	110000	1	AE017354_01	Continuation (2 of	c 189	15.8	79.0	10018	15	AF082072	AF082072 Emericell
c 117	16.4	82.0	110000	1	BA000035_26	Continuation (27 o	c 190	15.8	79.0	10029	1	AE007903	AE007903 Agrobacte
c 118	16.4	82.0	110000	1	BA000035_27	Continuation (28 o	c 191	15.8	79.0	10808	1	AE004325	AE004325 Vibrio ch
c 119	16.4	82.0	110000	1	CP000030_10	Continuation (11 o	c 192	15.8	79.0	11178	1	AE008956	AE008956 Agrobacte
c 120	16.4	82.0	110000	1	CP000050_50	Continuation (51 o	c 193	15.8	79.0	13278	1	AE001701	AE001701 Thermotog
c 121	16.4	82.0	123500	13	US34466	US34466 Cydia pomon	c 194	15.8	79.0	17734	9	AF279892	AF279892 Rattus no
c 122	16.4	82.0	166104	9	AC155311	AC155311 Mus muscu	c 195	15.8	79.0	17807	14	AC012893	AC012893 Drosophil
c 123	16.4	82.0	169571	14	AC136407	AC136407 Rattus no	c 196	15.8	79.0	18875	13	AY729654	AY729654 Sudan ebo
c 124	16.4	82.0	171815	9	AL772257	AL772257 Mouse DNA	c 197	15.8	79.0	35615	13	MLCB2407	MLCB2407 Mycobacte
c 125	16.4	82.0	178590	14	AC132894	AC132894 Mus muscu	c 198	15.8	79.0	36181	1	U000023	U000023 Mycobacte
c 126	16.4	82.0	180976	5	CR450692	CR450692 Zebrafish	c 199	15.8	79.0	36181	6	AR345352	AR345352 Sequence
c 127	16.4	82.0	186444	9	AC140284	AC140284 Mus muscu	c 200	15.8	79.0	39731	8	AC005760	AC005760 Homo sapi
c 128	16.4	82.0	191102	14	AC153205	AC153205 Bos tauru	c 201	15.8	79.0	40702	1	AJ872269	AJ872269 Thermotog
c 129	16.4	82.0	191322	9	AC140314	AC140314 Mus muscu	c 202	15.8	79.0	43944	1	AJ872273	AJ872273 Thermotog
c 130	16.4	82.0	211754	14	AC103039	AC103039 Rattus no	c 203	15.8	79.0	45429	1	AJ872268	AJ872268 Thermotog
c 131	16.4	82.0	215143	14	AC165306	AC165306 Mus muscu	c 204	15.8	79.0	57416	7	AF448724	AF448724 Sinorhizo
c 132	16.4	82.0	225480	14	AC106091	AC106091 Rattus no	c 205	15.8	79.0	61313	6	CQ363757	CQ363757 Sequence
c 133	16.4	82.0	226328	14	AC105975	AC105975 Rattus no	c 206	15.8	79.0	68110	14	AC124651	AC124651 Homo sapi
c 134	16.4	82.0	233774	14	AC110701	AC110701 Rattus no	c 207	15.8	79.0	78003	14	AC165769	AC165769 Bos tauru
c 135	16.4	82.0	235638	14	AC097984	AC097984 Rattus no	c 208	15.8	79.0	89047	6	AR408755	AR408755 Sequence
c 136	16.4	82.0	247402	9	AC125187	AC125187 Mus muscu	c 209	15.8	79.0	89047	6	AX067459	AX067459 Sequence
c 137	16.4	82.0	307337	1	BX842856	BX842856 Bdellovib	c 210	15.8	79.0	98734	5	EX238666	EX238666 Zebrafish
c 138	16.4	82.0	313050	1	BX321857	BX321857 Nitrosomo	c 211	15.8	79.0	102539	8	AL591866	AL591866 Human DNA
c 139	16.4	80.0	110000	1	BA000039_18	Continuation (19 o	c 212	15.8	79.0	103353	15	AC104428	AC104428 Oryza sat
c 140	16.4	80.0	110000	1	BA000040_53	Continuation (54 o	c 213	15.8	79.0	103853	14	AC153098	AC153098 Carollia
c 141	16.4	80.0	110000	15	AP008211_266	Continuation (267	c 214	15.8	79.0	109476	8	AL513548	AL513548 Human DNA
c 142	16.4	80.0	115808	15	AC104713	AC104713 Oryza sat	c 215	15.8	79.0	110000	1	CR553306_11	Continuation (12 o
c 143	15.8	79.0	141	2	AF533548	AF533548 Lepidophth	c 216	15.8	79.0	110000	1	CR626927_47	Continuation (48 o
c 144	15.8	79.0	271	8	AY271122	AY271122 Homo sapi	c 217	15.8	79.0	110000	1	AE017283_01	Continuation (2 of
c 145	15.8	79.0	372	6	IO7762	IO7762 Sequence 18	c 218	15.8	79.0	110000	1	AP006841_48	Continuation (49 o
c 146	15.8	79.0	436	1	REMB011R2	AF116362 Rhizobium	c 219	15.8	79.0	110000	1	BA000012_05	Continuation (6 of
c 147	15.8	79.0	553	10	BV221247	BV221247 S233P6324	c 220	15.8	79.0	110000	1	BA000022_16	Continuation (17 o
c 148	15.8	79.0	602	10	BV308310	BV308310 S233P6422	c 221	15.8	79.0	110000	1	BA000040_84	Continuation (85 o
c 149	15.8	79.0	648	6	CQ592956	CQ592956 Sequence	c 222	15.8	79.0	110000	1	BA000045_20	Continuation (21 o
c 150	15.8	79.0	698	15	AY429331	AY429331 Begonia b	c 223	15.8	79.0	110000	1	CP000031_03	Continuation (4 of
c 151	15.8	79.0	706	15	AY429329	AY429329 Begonia n	c 224	15.8	79.0	110000	1	CP000031_04	Continuation (5 of
c 152	15.8	79.0	736	2	AY070637	AY070637 Drosophil	c 225	15.8	79.0	110000	1	CP000076_09	Continuation (10 o
c 153	15.8	79.0	741	6	AR508798	AR508798 Sequence	c 226	15.8	79.0	110000	2	CR954256_0	CR954256 Anopheles
c 154	15.8	79.0	813	2	AY070682	AY070682 Drosophil	c 227	15.8	79.0	110000	2	CR954256_1	Continuation (2 of
c 155	15.8	79.0	928	15	AK121986	AK121986 Oryza sat	c 228	15.8	79.0	110000	15	AP008217_197	Continuation (198
c 156	15.8	79.0	1112	5	BT019211	BT019211 Zea mays	c 229	15.8	79.0	110000	15	AP008217_210	Continuation (211
c 157	15.8	79.0	1299	5	BC063728	BC063728 Xenopus 1	c 230	15.8	79.0	110000	15	AP008218_106	Continuation (107
c 158	15.8	79.0	2084	6	BD084162	BD084162 28 human	c 231	15.8	79.0	110000	15	AP008209_034	Continuation (35 o
c 159	15.8	79.0	2084	6	AR229185	AR229185 Sequence	c 232	15.8	79.0	110000	15	AP008209_274	Continuation (275 o
c 160	15.8	79.0	2084	6	AR650402	AR650402 Sequence	c 233	15.8	79.0	110000	15	AP008211_011	Continuation (12 o
c 161	15.8	79.0	2084	6	AX810687	AX810687 Sequence	c 234	15.8	79.0	112158	8	HS126A5	AL031447 Human DNA
c 162	15.8	79.0	2396	6	CQ615215	CQ615215 Sequence	c 235	15.8	79.0	115093	8	AC091558	AC091558 Homo sapi
c 163	15.8	79.0	2466	9	BC083580	BC083580 Rattus no	c 236	15.8	79.0	120560	5	EX663610	EX663610 Zebrafish
c 164	15.8	79.0	2545	6	IO7769	IO7769 Sequence 25	c 237	15.8	79.0	122768	15	AC093088	AC093088 Oryza sat

238	15.8	79.0	125099	8	AC006251	AC006251 Homo sapi	311	15.8	79.0	269286	14	CT009662	CT009662 Mus muscu
239	15.8	79.0	126121	14	AC014963	AC014963 Drosophi	c 312	15.8	79.0	269286	14	CT009662	CT009662 Mus muscu
240	15.8	79.0	128885	8	AP004318	AP004318 Homo sapi	313	15.8	79.0	275373	14	CT009662	CT009662 Mus muscu
241	15.8	79.0	135011	14	CR381579	CR381579 Danio rer	c 314	15.8	79.0	280653	14	AC157065	AC157065 Bos tauru
242	15.8	79.0	135105	15	CNS08CA8	AL811795 Oryza sat	c 315	15.8	79.0	280653	14	AC157065	AC157065 Bos tauru
243	15.8	79.0	137726	8	AC105919	AC105919 Homo sapi	c 316	15.8	79.0	294396	14	AC105485	AC105485 Rattus no
244	15.8	79.0	138345	15	AC105747	AC105747 Oryza sat	c 317	15.8	79.0	302325	1	AE017236	AE017236 Mycobacte
245	15.8	79.0	146524	8	AC092340	AC092340 Homo sapi	c 318	15.8	79.0	303022	2	AE003542	AE003542 Drosophi
246	15.8	79.0	150030	9	AL807820	AL807820 Mouse DNA	c 319	15.8	79.0	305584	1	AE016920	AE016920 Chromoba
247	15.8	79.0	151991	14	AC053535	AC053535 Homo sapi	c 320	15.8	79.0	306026	14	AC152327	AC152327 Bos tauru
248	15.8	79.0	152272	15	AC137589	AC137589 Oryza sat	c 321	15.8	79.0	308950	1	MLEPRTN9	AL583925 Mycobacte
249	15.8	79.0	152272	15	AC137589	AC137589 Oryza sat	c 322	15.8	79.0	347368	14	AC096620	AC096620 Rattus no
250	15.8	79.0	153612	14	AC157461	AC157461 Rhinolph	c 323	15.8	79.0	348971	1	BS572594	BS572594 Rhodopeu
251	15.8	79.0	154169	8	AC008962	AC008962 Homo sapi	c 324	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
252	15.8	79.0	154469	8	HSJ729N16	AL096707 Human DNA	c 325	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
253	15.8	79.0	156397	14	AC164120	AC164120 Mus muscu	c 326	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
254	15.8	79.0	159070	14	AC128114	AC128114 Rattus no	c 327	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
255	15.8	79.0	161044	14	AC152359	AC152359 Carollia	c 328	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
256	15.8	79.0	163587	14	AC158725	AC158725 Rhinolph	c 329	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
257	15.8	79.0	165318	14	AC101943	AC101943 Homo sapi	c 330	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
258	15.8	79.0	166451	14	AC136430	AC136430 Homo sapi	c 331	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
259	15.8	79.0	169595	14	AC069316	AC069316 Homo sapi	c 332	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
260	15.8	79.0	171127	14	AC024527	AC024527 Homo sapi	c 333	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
261	15.8	79.0	171534	14	AC152458	AC152458 Carollia	c 334	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
262	15.8	79.0	172156	14	AL590237	AL590237 Homo sapi	c 335	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
263	15.8	79.0	172806	9	AC110252	AC110252 Mus muscu	c 336	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
264	15.8	79.0	175133	14	AC114312	AC114312 Homo sapi	c 337	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
265	15.8	79.0	177630	8	AC134978	AC134978 Homo sapi	c 338	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
266	15.8	79.0	178605	14	AC160869	AC160869 Orolemur	c 339	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
267	15.8	79.0	179052	14	AC161748	AC161748 Rhinolph	c 340	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
268	15.8	79.0	181054	14	AC149084	AC149084 Mus muscu	c 341	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
269	15.8	79.0	181921	14	AC132056	AC132056 Rattus no	c 342	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
270	15.8	79.0	182509	2	AC112211	AC112211 Homo sapi	c 343	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
271	15.8	79.0	183105	8	AC104606	AC104606 Drosophi	c 344	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
272	15.8	79.0	185061	14	AC062024	AC062024 Homo sapi	c 345	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
273	15.8	79.0	185134	9	AC134472	AC134472 Mus muscu	c 346	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
274	15.8	79.0	185415	8	HS121M24	AL354046 Homo sapi	c 347	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
275	15.8	79.0	186774	8	AC139887	AC139887 Homo sapi	c 348	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
276	15.8	79.0	186990	2	AC023678	AC023678 Drosophi	c 349	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
277	15.8	79.0	188761	9	AC154421	AC154421 Mus muscu	c 350	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
278	15.8	79.0	189088	14	AC146672	AC146672 Orolemur	c 351	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
279	15.8	79.0	190341	9	AC163632	AC163632 Mus muscu	c 352	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
280	15.8	79.0	190804	9	AL806520	AL806520 Mouse DNA	c 353	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
281	15.8	79.0	191481	14	AC108123	AC108123 Homo sapi	c 354	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
282	15.8	79.0	192297	9	AL805928	AL805928 Mouse DNA	c 355	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
283	15.8	79.0	193766	14	AC158897	AC158897 Bos tauru	c 356	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
284	15.8	79.0	194931	14	AC150948	AC150948 Bos tauru	c 357	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
285	15.8	79.0	197878	2	AC093437	AC093437 Drosophi	c 358	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
286	15.8	79.0	201377	14	AC073767	AC073767 Mus muscu	c 359	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
287	15.8	79.0	202438	14	CR931781	CR931781 Danio rer	c 360	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
288	15.8	79.0	203269	9	AC154448	AC154448 Mus muscu	c 361	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
289	15.8	79.0	205422	14	AC163557	AC163557 Bos tauru	c 362	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
290	15.8	79.0	205496	14	AC165202	AC165202 Oryctoleg	c 363	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
291	15.8	79.0	207729	14	AC148194	AC148194 Callithr	c 364	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
292	15.8	79.0	208907	9	AC124128	AC124128 Mus muscu	c 365	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
293	15.8	79.0	211200	14	AC149045	AC149045 Orolemur	c 366	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
294	15.8	79.0	211693	14	AC105714	AC105714 Rattus no	c 367	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
295	15.8	79.0	213287	9	AC159329	AC159329 Mus muscu	c 368	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
296	15.8	79.0	215957	14	AC148950	AC148950 Orolemur	c 369	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
297	15.8	79.0	217393	9	AC158615	AC158615 Mus muscu	c 370	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
298	15.8	79.0	220077	9	AC074312	AC074312 Mus muscu	c 371	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
299	15.8	79.0	226059	14	AC079488	AC079488 Mus muscu	c 372	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
300	15.8	79.0	236576	2	CNS07EGE	AL590447 chromosom	c 373	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
301	15.8	79.0	238330	14	AC156319	AC156319 Bos tauru	c 374	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
302	15.8	79.0	242603	5	AC145942	AC145942 Gallus ga	c 375	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
303	15.8	79.0	242603	14	AC146735	AC146735 Orolemur	c 376	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
304	15.8	79.0	243275	14	AC073705	AC073705 Mus muscu	c 377	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
305	15.8	79.0	246177	9	AC132957	AC132957 Mus muscu	c 378	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
306	15.8	79.0	247655	9	AC145549	AC145549 Mus muscu	c 379	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
307	15.8	79.0	252403	14	AC137016	AC137016 Rattus no	c 380	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
308	15.8	79.0	261152	14	AC096964	AC096964 Rattus no	c 381	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
309	15.8	79.0	262886	14	AC121209	AC121209 Rattus no	c 382	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu
310	15.8	79.0	264127	14	AC094001	AC094001 Rattus no	c 383	15.8	79.0	349635	1	BS572603	BS572603 Rhodopeu

384	15.4	77.0	110000	15	AP008216	006	Continuation (7 of
385	15.4	77.0	110000	15	AP008216	007	Continuation (8 of
386	15.4	77.0	110000	15	AP008217	167	Continuation (168
387	15.4	77.0	110000	15	AC145127	06	Continuation (7 of
388	15.4	77.0	110000	15	AC145127	07	Continuation (8 of
389	15.4	77.0	136418	5	CR450850		CR450850 Zebrafish
390	15.4	77.0	148650	1	AF416331		AF416331 Ruegeria
391	15.4	77.0	150486	15	AP005550		AP005550 Oryza sat
392	15.4	77.0	154364	14	AC150637		AC150637 Bos tauru
393	15.4	77.0	156725	15	AC136787		AC136787 Oryza sat
394	15.4	77.0	157575	8	AL355520		AL355520 Human DNA
395	15.4	77.0	158066	8	AC107307		AC107307 Homo sapi
396	15.4	77.0	159716	14	AC025807		AC025807 Homo sapi
397	15.4	77.0	163033	15	AP005729		AP005729 Oryza sat
398	15.4	77.0	169189	14	AC125293		AC125293 Drosophil
399	15.4	77.0	172221	14	AC145534		AC145534 Lemur cat
400	15.4	77.0	172239	14	AC079307		AC079307 Homo sapi
401	15.4	77.0	172395	14	AC164214		AC164214 Bos tauru
402	15.4	77.0	175996	2	AC108480		AC108480 Drosophil
403	15.4	77.0	182513	14	CR925792		CR925792 Danio rer
404	15.4	77.0	182960	2	AC010017		AC010017 Drosophil
405	15.4	77.0	183774	8	AL596217		AL596217 Human DNA
406	15.4	77.0	184478	9	AC132385		AC132385 Mus muscu
407	15.4	77.0	184660	14	AC109861		AC109861 Rattus no
408	15.4	77.0	186622	14	AC023917		AC023917 Homo sapi
409	15.4	77.0	187047	9	AC152962		AC152962 Mus muscu
410	15.4	77.0	187547	8	AC078958		AC078958 Homo sapi
411	15.4	77.0	189349	15	AF459639		AF459639 Triticum
412	15.4	77.0	194483	14	RP430161	09	CR955037 Pan trogl
413	15.4	77.0	195935	9	AC129219		AC129219 Mus muscu
414	15.4	77.0	199906	14	AC109939		AC109939 Rattus no
415	15.4	77.0	205567	9	AC123350		AC123350 Mus muscu
416	15.4	77.0	206462	14	CR753794		CR753794 Danio rer
417	15.4	77.0	206849	14	AC011760		AC011760 Drosophil
418	15.4	77.0	213230	2	AE003427		AE003427 Drosophil
419	15.4	77.0	215241	15	AF459639		AF459639 Triticum
420	15.4	77.0	217163	14	AC106601		AC106601 Rattus no
421	15.4	77.0	217835	14	CR388417		CR388417 Danio rer
422	15.4	77.0	220696	14	AC114146		AC114146 Rattus no
423	15.4	77.0	236186	14	AC094066		AC094066 Rattus no
424	15.4	77.0	236933	14	AC111937		AC111937 Rattus no
425	15.4	77.0	237263	14	AC097686		AC097686 Rattus no
426	15.4	77.0	240710	14	AC132052		AC132052 Rattus no
427	15.4	77.0	242642	14	AC115480		AC115480 Rattus no
428	15.4	77.0	253194	14	AC112558		AC112558 Rattus no
429	15.4	77.0	263979	14	AC098109		AC098109 Rattus no
430	15.4	77.0	267472	14	AC131524		AC131524 Rattus no
431	15.4	77.0	300933	15	AE016791		AE016791 Pseudomon
432	15.4	77.0	304564	15	AE017049		AE017049 Oryza sat
433	15.4	77.0	314904	2	AE003594		AE003594 Drosophil
434	15.4	77.0	341128	14	AC114690		AC114690 Rattus no
435	15.4	77.0	349859	1	BX571662		BX571662 Wolinella
436	15.2	76.0	104	6	AX523325		AX523325 Sequence
437	15.2	76.0	174	6	CQ743973		CQ743973 Sequence
438	15.2	76.0	210	15	AF154597		AF154597 Trifolium
439	15.2	76.0	264	6	AR347501		AR347501 Sequence
440	15.2	76.0	294	6	CQ749141		CQ749141 Sequence
441	15.2	76.0	306	6	CQ750007		CQ750007 Sequence
442	15.2	76.0	357	6	AS5876		AS5876 Sequence 6
443	15.2	76.0	357	6	AR087103		AR087103 Sequence
444	15.2	76.0	364	6	CQ48453		CQ48453 Sequence
445	15.2	76.0	372	8	AB079294		AB079294 Hylobates
446	15.2	76.0	373	8	AB064536		AB064536 Homo sapi
447	15.2	76.0	409	6	CQ053304		CQ053304 Sequence
448	15.2	76.0	409	6	CQ068432		CQ068432 Sequence
449	15.2	76.0	409	6	CQ095502		CQ095502 Sequence
450	15.2	76.0	409	6	CQ134252		CQ134252 Sequence
451	15.2	76.0	409	6	CQ172757		CQ172757 Sequence
452	15.2	76.0	409	6	CQ201948		CQ201948 Sequence
453	15.2	76.0	409	6	CQ217505		CQ217505 Sequence
454	15.2	76.0	409	6	CQ256070		CQ256070 Sequence
455	15.2	76.0	409	6	CQ293157		CQ293157 Sequence
456	15.2	76.0	409	6	CQ330127		CQ330127 Sequence
457	15.2	76.0		6	CQ430610		CQ430610 Sequence
458	15.2	76.0	514	6	A52398		A52398 Sequence 5
459	15.2	76.0	550	3	IBA440493		IBA440493 Pseudomon
460	15.2	76.0	558	10	G25476		G25476 human SRS E
461	15.2	76.0	558	10	G27901		G27901 human SRS S
462	15.2	76.0	562	10	BV396273		BV396273 S243P6162
463	15.2	76.0	572	6	CQ745548		CQ745548 Sequence
464	15.2	76.0	600	6	AR348416		AR348416 Sequence
465	15.2	76.0	601	15	AY429327		AY429327 Begonia m
466	15.2	76.0	636	10	BV350075		BV350075 S230P6345
467	15.2	76.0	638	10	BV435913		BV435913 S237P6401
468	15.2	76.0	676	15	AY429323		AY429323 Begonia m
469	15.2	76.0	686	6	AR676402		AR676402 Sequence
470	15.2	76.0	714	6	CQ752698		CQ752698 Sequence
471	15.2	76.0	720	6	CQ421743		CQ421743 Sequence
472	15.2	76.0	720	15	CNS01BIJ		AL113663 Botrytis
473	15.2	76.0	751	10	BV642362		BV642362 S215P6053
474	15.2	76.0	781	10	BV059684		BV059684 S212P6452
475	15.2	76.0	830	3	IBA440494		IBA440494 Pseudomon
476	15.2	76.0	887	6	AR375317		AR375317 Sequence
477	15.2	76.0	996	6	CQ749944		CQ749944 Sequence
478	15.2	76.0	1072	5	CR388496		CR388496 Gallus ga
479	15.2	76.0	1083	6	AY322539		AY322539 Homo sapi
480	15.2	76.0	1095	6	AX300472		AX300472 Sequence
481	15.2	76.0	1142	8	BC020494		BC020494 Homo sapi
482	15.2	76.0	1142	8	BC074935		BC074935 Homo sapi
483	15.2	76.0	1208	6	AX055060		AX055060 Sequence
484	15.2	76.0	1218	15	AF404747		AF404747 Porphyra
485	15.2	76.0	1235	6	CQ725998		CQ725998 Sequence
486	15.2	76.0	1269	6	AX705066		AX705066 Sequence
487	15.2	76.0	1269	8	AB023888		AB023888 Homo sapi
488	15.2	76.0	1269	8	AB023889		AB023889 Homo sapi
489	15.2	76.0	1269	8	AB023891		AB023891 Homo sapi
490	15.2	76.0	1269	8	AB023892		AB023892 Homo sapi
491	15.2	76.0	1300	4	CFCALCPH		X14479 Dog mRNA fo
492	15.2	76.0	1304	4	CFCPHOS		X14047 Canis famli
493	15.2	76.0	1386	6	AR389474		AR389474 Sequence
494	15.2	76.0	1417	6	CQ727640		CQ727640 Sequence
495	15.2	76.0	1417	8	AF231917		AF231917 Homo sapi
496	15.2	76.0	1452	6	AR389118		AR389118 Sequence
497	15.2	76.0	1476	6	AR447578		AR447578 Sequence
498	15.2	76.0	1492	6	AR380092		AR380092 Sequence
499	15.2	76.0	1542	8	BC069139		BC069139 Homo sapi
500	15.2	76.0	1607	6	A52411		A52411 Sequence 18
ALIGNMENTS							
RESULT 1	AX705275	AX705275	Sequence 5 from Patent WO03014357.	1524 bp	DNA	linear	PAT 04-APR-2003
LOCUS	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
DEFINITION	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
ACCESSION	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
VERSION	AX705275.1	AX705275.1	GI:295561950				
KEYWORDS	AX705275.1	AX705275.1	GI:295561950				
SOURCE	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
ORGANISM	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
REFERENCE	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
AUTHORS	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
TITLE	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
JOURNAL	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
FEATURES	AX705275	AX705275	Sequence 5 from Patent WO03014357.				
ORIGIN	AX705275	AX705275	Sequence 5 from Patent WO03014357.				



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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 169.231 Seconds  
(without alignments)  
787.645 Million cell updates/sec

Title: US-10-805-973-5  
Perfect score: 20  
Sequence: 1 gggaggcgatcattgccact 20

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : N\_Geneseq\_21.\*

1: Geneseqn1980s.\*  
2: Geneseqn1990s.\*  
3: Geneseqn2000s.\*  
4: Geneseqn2001as.\*  
5: Geneseqn2001bs.\*  
6: Geneseqn2002as.\*  
7: Geneseqn2002bs.\*  
8: Geneseqn2003as.\*  
9: Geneseqn2003bs.\*  
10: Geneseqn2003cs.\*  
11: Geneseqn2003ds.\*  
12: Geneseqn2004as.\*  
13: Geneseqn2004bs.\*  
14: Geneseqn2005s.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	1524	10	ADFS0205 Wheat Tea
2	20	100.0	1673	10	ADFS0216 Wheat Tea
3	20	100.0	1674	10	ADFS0218 Wheat Tea
4	20	100.0	1674	10	ADFS0222 Wheat Tea
5	20	100.0	1674	10	ADFS0220 Wheat Tea
6	20	100.0	1675	10	ADFS0201 Wheat Tea
7	20	100.0	1677	10	ADFS0224 Wheat Tea
8	19	95.0	1524	10	ADFS0206 Wheat Tea
9	19	95.0	1672	10	ADFS0203 Wheat Tea
10	19	95.0	1673	10	ADFS0230 Wheat Tea
11	19	95.0	1673	10	ADFS0226 Wheat Tea
12	19	95.0	1673	10	ADFS0228 Wheat Tea
13	19	95.0	1674	10	ADFS0232 Wheat Tea
14	19	95.0	1674	10	ADFS0234 Wheat Tea
15	19	95.0	1756	14	ADVL1362 Imidazole
16	19	95.0	1768	14	ADVL1360 Imidazole
17	19	95.0	1788	14	ADVL1372 Durum whe
18	19	95.0	1788	14	ADVL1364 Durum whe
19	19	95.0	1788	14	ADVL1369 Durum whe

ADVL1354	Imidazole	19	95.0	1788	14	ADVL1354
ADVL1367	Durum whe	20	100.0	1788	14	ADVL1367
ADFL50207	Wheat Tea	21	100.0	1524	10	ADFL50207
ADVL1376	Imidazole	22	100.0	1710	14	ADVL1376
ADVL1358	Imidazole	23	100.0	1723	14	ADVL1358
ADVL1366	Durum whe	24	100.0	1788	14	ADVL1366
ADVL1368	Durum whe	25	100.0	1788	14	ADVL1368
ADVL1374	Durum whe	26	100.0	1788	14	ADVL1374
ADVL1370	Durum whe	27	100.0	1788	14	ADVL1370
ADH68162	DNA encod	28	100.0	627	12	ADH68162
ADH68166	DNA of a	29	100.0	3237	12	ADH68166
ADH68164	DNA encod	30	100.0	3342	12	ADH68164
ADM96266	Human pho	31	100.0	3410	12	ADM96266
AAT58545	Human pho	32	100.0	4134	2	AAT58545
AAT58546	Human pho	33	100.0	4137	2	AAT58546
AAV74104	Human G-p	34	100.0	5162	2	AAV74104
AZ86814	Human p12	35	100.0	5162	2	AZ86814
ADK41013	Novel hum	36	100.0	5309	10	ADK41013
ACN44895	Human mRN	37	100.0	5309	11	ACN44895
ADR15727	Kinase 33	38	100.0	5309	13	ADR15727
AE32295	Human cDN	39	100.0	5309	14	AE32295
ADY15701	DNA encod	40	100.0	5379	14	ADY15701
AS14367	CDNA enco	41	100.0	5397	6	AS14367
AD15922	Human pho	42	100.0	5397	6	AD15922
AE32250	Human cDN	43	100.0	5397	14	AE32250
ADQ38404	Human SNP	44	100.0	5410	13	ADQ38404
ADQ38405	Human SNP	45	100.0	5626	13	ADQ38405
AE32417	Human gen	46	100.0	5626	14	AE32417
AE32372	Human gen	47	100.0	5945	14	AE32372
ACN44894	Human gen	48	100.0	61588	11	ACN44894
AAV42012	Glycerol	49	100.0	1668	2	AAV42012
AAV35733	Klebsiell	50	100.0	1668	2	AAV35733
AZ38988	Klebsiell	51	100.0	1668	3	AZ38988
ACH96392	Klebsiell	52	100.0	1671	11	ACH96392
ADP22587	Sea-squir	53	100.0	1710	12	ADP22587
AE36123	Klebsiell	54	100.0	2693	10	AE36123
AE36197	Klebsiell	55	100.0	2693	10	AE36197
AE36245	Klebsiell	56	100.0	2693	10	AE36245
AE36147	Klebsiell	57	100.0	2693	10	AE36147
AE36206	Klebsiell	58	100.0	2693	10	AE36206
AE36236	Klebsiell	59	100.0	2693	10	AE36236
AE36189	Klebsiell	60	100.0	2693	10	AE36189
AE36127	Klebsiell	61	100.0	2693	10	AE36127
AE36173	Klebsiell	62	100.0	2693	10	AE36173
AE36185	Klebsiell	63	100.0	2693	10	AE36185
AE36200	Klebsiell	64	100.0	2693	10	AE36200
AE36119	Klebsiell	65	100.0	2693	10	AE36119
AE36159	Klebsiell	66	100.0	2693	10	AE36159
AE36139	Klebsiell	67	100.0	2693	10	AE36139
AE36193	Klebsiell	68	100.0	2693	10	AE36193
AE36224	Klebsiell	69	100.0	2693	10	AE36224
AE36135	Klebsiell	70	100.0	2693	10	AE36135
AE36151	Klebsiell	71	100.0	2693	10	AE36151
AE36169	Klebsiell	72	100.0	2693	10	AE36169
AE36209	Klebsiell	73	100.0	2693	10	AE36209
AE36218	Klebsiell	74	100.0	2693	10	AE36218
AE36215	Klebsiell	75	100.0	2693	10	AE36215
AE36242	Klebsiell	76	100.0	2693	10	AE36242
AE36181	Klebsiell	77	100.0	2693	10	AE36181
AE36227	Klebsiell	78	100.0	2693	10	AE36227
AE36230	Klebsiell	79	100.0	2693	10	AE36230
AE36131	Klebsiell	80	100.0	2693	10	AE36131
AE36177	Klebsiell	81	100.0	2693	10	AE36177
AE36221	Klebsiell	82	100.0	2693	10	AE36221
AE36239	Klebsiell	83	100.0	2693	10	AE36239
AE36162	Klebsiell	84	100.0	2693	10	AE36162
AE36165	Klebsiell	85	100.0	2693	10	AE36165
AE36212	Klebsiell	86	100.0	2693	10	AE36212
AE36233	Klebsiell	87	100.0	2693	10	AE36233
AE36248	Klebsiell	88	100.0	2693	10	AE36248
AE36203	Klebsiell	89	100.0	2693	10	AE36203
AAQ86525	Laccase g	90	100.0	3117	2	AAQ86525
ACN44893	Mouse mRN	91	100.0	4084	11	ACN44893



93	16.4	82.0	4529	2	AAV35771	AAV35771 Klebsiell	c 166	15.4	77.0	32147	8	AAD53860	Aad53860 Human chr
94	16.4	82.0	5268	5	AAf82085	Aaf82085 K. pneumo	c 167	15.4	77.0	37769	10	ADb74274	Adb74274 Mycobacte
95	16.4	82.0	7023	14	ADZ03869	Adz03869 Cloning v	c 168	15.4	77.0	91749	11	ACn44214	Acn44214 Human gen
96	16.4	82.0	12144	3	AAZ38971	Aaz38971 PHK28-26	c 169	15.4	77.0	254481	12	ADQ97135	Adq97135 Mouse can
97	16.4	82.0	12145	2	AAV38833	Aat38833 PHK28-26	c 170	15.2	76.0	104	8	ABZ09835	Abz09835 Human oli
98	16.4	82.0	12145	2	AAV42022	Aat42022 Plasmid p	c 171	15.2	76.0	104	10	ABZ79288	Abz79288 Tumour su
99	16.4	82.0	12145	2	AAV35743	Aav35743 Klebsiell	c 172	15.2	76.0	264	10	ADC92485	Adc92485 E. faeciu
100	16.4	82.0	12145	4	AAf81961	Aaf81961 Klebsiell	c 173	15.2	76.0	267	13	ADS95133	Ads95133 Human the
101	16.4	82.0	12145	4	AAf76941	Aaf76941 Klebsiell	c 174	15.2	76.0	267	13	ADS94971	Ads94971 Human the
102	16.4	82.0	12145	10	ADb36084	Adb36084 Klebsiell	c 175	15.2	76.0	267	13	ADb67990	Adb67990 Biologica
103	16.4	82.0	12145	10	ADG20861	Adg20861 Glucose i	c 176	15.2	76.0	267	13	ADb67828	Adb67828 Biologica
104	16.4	82.0	13402	10	ADG20887	Adg20887 Glucose i	c 177	15.2	76.0	269	13	ACF85365	Acf85365 Human SIR
105	16.4	82.0	13402	12	ADN59093	Adn59093 Novel Esc	c 178	15.2	76.0	303	6	ABQ91814	Abq91814 M. capaul
106	16.4	82.0	13470	10	ADG20843	Adg20843 Glucose i	c 179	15.2	76.0	357	2	AAf47505	Aaf47505 Partial E
107	16.4	82.0	13543	8	ADG36836	Adg36836 Plasmid p	c 180	15.2	76.0	364	6	ABN22868	Abn22868 Human ORP
108	16.4	82.0	13543	10	ADG20885	Adg20885 Glucose i	c 181	15.2	76.0	378	4	AAK88211	Aak88211 Human dig
109	16.4	82.0	13543	10	ADG20886	Adg20886 Glucose i	c 182	15.2	76.0	409	4	AAI14299	Aai14299 Probe #42
110	16.4	82.0	13543	12	ADN59092	Adn59092 Novel Esc	c 183	15.2	76.0	409	4	ABA56026	Aba56026 Human foe
111	16.4	82.0	13543	12	ADN59091	Adn59091 Novel Esc	c 184	15.2	76.0	409	4	AAI35675	Aai35675 Probe #43
112	16.4	82.0	13611	10	ADG20891	Adg20891 Glucose i	c 185	15.2	76.0	409	4	ABA45530	Aba45530 Human bre
113	16.4	82.0	13669	10	ADG20884	Adg20884 Glucose i	c 186	15.2	76.0	409	4	ABA25687	Aba25687 Probe #41
114	16.4	82.0	13669	12	ADMT74324	Adm74324 Plasmid p	c 187	15.2	76.0	409	4	AAK29717	Aak29717 Human bon
115	16.4	82.0	13669	12	ADMT74324	Adm74324 Plasmid p	c 188	15.2	76.0	409	4	AAK04230	Aak04230 Human bra
116	16.4	82.0	13669	12	ADN59092	Adn59092 Novel Esc	c 189	15.2	76.0	409	4	ABS29354	Abs29354 Human liv
117	16.4	82.0	13669	11	ACN44892	Acn44892 Mouse gen	c 190	15.2	76.0	409	5	AAI04133	Aai04133 Probe #41
118	16.4	82.0	130312	14	ABEB39168	Abb39168 L. pneumo	c 191	15.2	76.0	409	6	ABS04271	Abs04271 Human gen
119	16.4	82.0	143354	14	ABEB42740	Abb42740 L. pneumo	c 192	15.2	76.0	421	8	AAH39824	Aah39824 Bovine ES
120	15.8	79.0	256	7	ADG56360	Adg56360 Corn seed	c 193	15.2	76.0	476	9	ACH15080	Ach15080 Human adu
121	15.8	79.0	372	2	AAQ03658	Aaq03658 C38a16aeq	c 194	15.2	76.0	489	5	AAH83561	Aah83561 DNA encod
122	15.8	79.0	470	9	ACH14719	Ach14719 Human adu	c 195	15.2	76.0	489	5	AAH23174	Aah23174 Human bre
123	15.8	79.0	647	4	ABL15649	Abi15649 Drosophil	c 196	15.2	76.0	514	2	AAT35278	Aat35278 Chemokine
124	15.8	79.0	1149	13	ADS58521	Ads58521 Bacterial	c 197	15.2	76.0	547	12	ACH72369	Ach72369 Human gen
125	15.8	79.0	1383	8	ACA53451	Aca53451 Prokaryot	c 198	15.2	76.0	571	4	AAS51174	Aas51174 Salmonell
126	15.8	79.0	1478	10	ADI06489	Adi06489 Secreted	c 199	15.2	76.0	600	10	ADC93400	Adc93400 E. faeciu
127	15.8	79.0	1478	13	ADO83726	Ado83726 Plant ful	c 200	15.2	76.0	686	3	AAF13380	Aaf13380 Aspergill
128	15.8	79.0	2084	2	AAV34286	Aav34286 Human sec	c 201	15.2	76.0	686	13	ADU57421	Adu57421 Aspergill
129	15.8	79.0	2084	6	ADK44636	Adk44636 Human sec	c 202	15.2	76.0	686	14	ADZ95424	Adz95424 Aspergill
130	15.8	79.0	2084	6	ADK44854	Adk44854 Human sec	c 203	15.2	76.0	720	4	AAH14312	Aah14312 Human bre
131	15.8	79.0	2084	8	AXB96566	Abx96566 Human sec	c 204	15.2	76.0	788	13	ADR21638	Adr21638 Human enz
132	15.8	79.0	2084	12	ADG89738	Adg89738 Human cdn	c 205	15.2	76.0	936	5	AAS78812	Aas78812 DNA encod
133	15.8	79.0	2098	4	AKB68437	Akb68437 Human imm	c 206	15.2	76.0	936	5	AAS75647	Aas75647 DNA encod
134	15.8	79.0	2396	4	ABL30488	Abi30488 Drosophil	c 207	15.2	76.0	960	8	ACA44415	Aca44415 Prokaryot
135	15.8	79.0	2546	2	AAQ03661	Aaq03661 Maize C3	c 208	15.2	76.0	987	10	ADF00038	Adf00038 Bacterial
136	15.8	79.0	2848	4	ABL15648	Abi15648 Drosophil	c 209	15.2	76.0	1002	6	ABQ90354	Abq90354 M. capaul
137	15.8	79.0	2927	4	AKK68438	Aak68438 Human imm	c 210	15.2	76.0	1005	11	ABD02945	Abd02945 Pseudomon
138	15.8	79.0	3962	13	ADR06874	Adr06874 Full leng	c 211	15.2	76.0	1083	12	ADO29831	Ado29831 Human GPC
139	15.8	79.0	4492	4	AAK94622	Aak94622 Human ful	c 212	15.2	76.0	1083	14	ADV42423	Adv42423 Human psy
140	15.8	79.0	4492	12	ADL31554	Adl31554 Full leng	c 213	15.2	76.0	1095	6	ABK14656	Abk14656 Rice acet
141	15.8	79.0	5946	4	ABL11784	Abi11784 Drosophil	c 214	15.2	76.0	1140	11	ACN84362	Acn84362 Breast ca
142	15.8	79.0	6450	11	ADN95826	Adn95826 Human BEC	c 215	15.2	76.0	1158	12	ADH45345	Adh45345 Human enz
143	15.8	79.0	6450	12	ADJ74812	Adj74812 Marker ge	c 216	15.2	76.0	1208	4	AAC91386	Aac91386 Human zal
144	15.8	79.0	6450	13	ACN37266	Acn37266 Tumour-as	c 217	15.2	76.0	1243	5	AAS84189	Aas84189 DNA encod
145	15.8	79.0	6450	14	ADX06878	Adx06878 Cyclin-de	c 218	15.2	76.0	1269	8	ABZ68880	Abz68880 Nucleotid
146	15.8	79.0	6450	14	ADY14979	Ady14979 DNA encod	c 219	15.2	76.0	1289	4	AAS27381	Aas27381 cDNA enco
147	15.8	79.0	6796	4	ABL17763	Abi17763 Drosophil	c 220	15.2	76.0	1289	10	ADB93559	Adb93559 Human cdn
148	15.8	79.0	36181	10	ADB74371	Adb74371 Mycobacte	c 221	15.2	76.0	1314	8	ACA50887	Aca50887 Prokaryot
149	15.8	79.0	61313	4	AAS59545	Aas59545 Propionib	c 222	15.2	76.0	1314	8	ACA51497	Aca51497 Prokaryot
150	15.8	79.0	61313	8	ACF64474	Acf64474 Propionib	c 223	15.2	76.0	1327	4	ABA09210	Abao9210 Human CCR
151	15.8	79.0	66681	13	ABD33333	Abd33333 Murine ca	c 224	15.2	76.0	1386	11	ABD000428	Abd000428 Klebsiell
152	15.8	79.0	89047	8	ACA28547	Aca28547 Genomic f	c 225	15.2	76.0	1452	11	ABD00072	Abd00072 Klebsiell
153	15.4	77.0	612	8	ACA39967	Aca39967 Prokaryot	c 226	15.2	76.0	1476	12	ADL12418	Adl12418 Human ste
154	15.4	77.0	618	11	ACL28654	Acl28654 Rice abio	c 227	15.2	76.0	1491	11	ABD11606	Abd11606 Pseudomon
155	15.4	77.0	753	12	ADL03618	Adl03618 DNA encod	c 228	15.2	76.0	1491	11	ADL13131	Adl13131 Human CDN
156	15.4	77.0	939	4	ABL16849	Abi16849 Drosophil	c 229	15.2	76.0	1492	13	ADS83378	Ads83378 Human lym
157	15.4	77.0	1368	8	ACA44045	Aca44045 Prokaryot	c 230	15.2	76.0	1542	12	ADP44056	Adp44056 Human CCR
158	15.4	77.0	1896	4	ABL29877	Abi29877 Drosophil	c 231	15.2	76.0	1607	2	AAT35277	Aat35277 Chemokine
159	15.4	77.0	2000	10	ACC61137	Acc61137 Gene sequ	c 232	15.2	76.0	1609	10	ADC30289	Adc30289 Human nov
160	15.4	77.0	2000	10	ADK63001	Adk63001 Disease t	c 233	15.2	76.0	1630	4	AAI59615	Aai59615 Human pol
161	15.4	77.0	3039	4	ABL16848	Abi16848 Drosophil	c 234	15.2	76.0	1659	11	ABD02962	Abd02962 Pseudomon
162	15.4	77.0	3110	4	ABL18426	Abi18426 Drosophil	c 235	15.2	76.0	1662	4	AAI57829	Aai57829 Human pol
163	15.4	77.0	3532	4	ABL29880	Abi29880 Drosophil	c 236	15.2	76.0	1668	14	ADW86742	Adw86742 CCR4 rece
164	15.4	77.0	4042	4	ABL29876	Abi29876 Drosophil	c 237	15.2	76.0	1677	3	AAA58872	Aaa58872 DNA encod
165	15.4	77.0	24053	4	AAD12308	Aad12308 Toxoplasm	c 238	15.2	76.0	1677	8	ABZ42636	Abz42636 Human C-C



385	14.8	74.0	1554	4	AAH17341	Aah17341 Human CDN	458	14.4	72.0	695	3	AAF12444	Aaf12444 Aspergill
c 386	14.8	74.0	1584	11	ABD03684	Abd03684 Pseudomon	459	14.4	72.0	695	13	ADU56485	Adu56485 Aspergill
c 387	14.8	74.0	1681	12	ADL67052	Adl67052 Novel Lac	460	14.4	72.0	695	14	ADZ94488	Adz94488 Aspergill
c 388	14.8	74.0	1919	12	ADM94375	Adm94375 Wheat ABC	461	14.4	72.0	773	5	AAS75078	Aas75078 DNA encod
c 389	14.8	74.0	1994	3	AAA38930	Aaa38930 Castor be	462	14.4	72.0	801	11	ACH97570	Ach97570 Klebsiell
c 390	14.8	74.0	1994	12	ADM98946	Adm98946 Diterpene	c 463	14.4	72.0	819	8	ACA35839	Aca35839 Prokaryot
c 391	14.8	74.0	2000	8	ADA72573	Ada72573 Rice gene	c 464	14.4	72.0	822	4	AAS53912	Aas53912 Klebsiell
c 392	14.8	74.0	2000	11	ACL37539	Acl37539 Rice atre	c 465	14.4	72.0	873	11	ACH97739	Ach97739 Klebsiell
c 393	14.8	74.0	2103	13	ADT45110	Adt45110 Bacterial	466	14.4	72.0	912	13	ADT44188	Adt44188 Bacterial
c 394	14.8	74.0	2130	5	AAS86825	Aas86825 DNA encod	467	14.4	72.0	960	12	ADL17021	Adl17021 Mycobacte
c 395	14.8	74.0	2244	14	ACL72546	Acl72546 M. xanthu	468	14.4	72.0	960	12	ADL17034	Adl17034 Mycobacte
c 396	14.8	74.0	2274	11	ACL26935	Acl26935 Rice abio	469	14.4	72.0	1122	11	ABD04168	Abd04168 Pseudomon
c 397	14.8	74.0	2404	13	ADS59470	Ads59470 Bacterial	470	14.4	72.0	1269	14	ACL67627	Acl67627 M. xanthu
c 398	14.8	74.0	2440	13	ADS62645	Ads62645 Bacterial	471	14.4	72.0	1296	13	ADS57955	Ads57955 Bacterial
c 399	14.8	74.0	2440	13	ADS62343	Ads62343 Bacterial	472	14.4	72.0	1442	4	ABL05895	Ab105895 Drosophil
c 400	14.8	74.0	2693	10	ADE36143	Ade36143 Klebsiell	c 473	14.4	72.0	1458	5	AAH81307	Aah81307 Escherich
c 401	14.8	74.0	2693	10	ADE36155	Ade36155 Klebsiell	474	14.4	72.0	1467	12	ADL03075	Adl03075 DNA encod
c 402	14.8	74.0	2775	13	ADR08189	Adr08189 Full leng	475	14.4	72.0	1473	4	AAF60957	Aaf60957 P. putida
c 403	14.8	74.0	2874	11	ADJ11615	Adj11615 Rice DNA	476	14.4	72.0	1611	13	ADS56722	Ads56722 Bacterial
c 404	14.8	74.0	3174	13	ADR08044	Adr08044 Full leng	477	14.4	72.0	1623	12	ADO29938	Ado29938 Human GPC
c 405	14.8	74.0	3189	8	ACA53562	Aca53562 Prokaryot	478	14.4	72.0	1686	13	ADS49518	Ads49518 Bacterial
c 406	14.8	74.0	3296	12	ADQ23734	Adq23734 Human sof	479	14.4	72.0	1728	8	ACA24950	Aca24950 Prokaryot
c 407	14.8	74.0	3808	2	AAV04634	Aav04634 Porcine p	480	14.4	72.0	1759	13	ADX60543	Adx60543 Plant ful
c 408	14.8	74.0	3808	2	AAV74100	Aav74100 Porcine G	481	14.4	72.0	1810	6	ABQ90237	Abq90237 M. capsul
c 409	14.8	74.0	3808	3	AAZ86813	Aaz86813 Pig p120	482	14.4	72.0	1862	13	ADX63201	Adx63201 Plant ful
c 410	14.8	74.0	4064	12	ADQ64476	Adq64476 Novel hum	483	14.4	72.0	1980	8	ACA36252	Aca36252 Prokaryot
c 411	14.8	74.0	4546	4	ABL09809	Ab109809 Drosophil	484	14.4	72.0	1983	11	ACH99500	Ach99500 Klebsiell
c 412	14.8	74.0	5118	4	ADL12309	Adl12309 Toxoplas	c 485	14.4	72.0	2054	8	ABZ42831	Abz42831 Human G P
c 413	14.8	74.0	5372	10	ADG39801	Adg39801 Human CDN	c 486	14.4	72.0	2054	14	ADZ75815	Adz75815 DNA encod
c 414	14.8	74.0	5974	10	ADF74226	Adf74226 Human nov	c 487	14.4	72.0	2077	3	RAD00241	Rad00241 Human neu
c 415	14.8	74.0	6565	4	AL030341	Al030341 Human rep	c 488	14.4	72.0	2337	10	ADF70566	Adf70566 Orphan re
c 416	14.8	74.0	6565	4	AL030342	Al030342 Human rep	c 489	14.4	72.0	2463	14	ADY72710	Ady72710 High amyl
c 417	14.8	74.0	6565	4	ABL97378	Ab197378 Human tes	c 490	14.4	72.0	2503	10	ADC07803	Adc07803 Rice DNA
c 418	14.8	74.0	6565	4	ABL97377	Ab197377 Human tes	c 491	14.4	72.0	2733	2	AAQ54674	Aaq54674 Rice star
c 419	14.8	74.0	8298	4	ABL20832	Ab120832 Drosophil	c 492	14.4	72.0	2733	2	AAQ62135	Aaq62135 Rice star
c 420	14.8	74.0	8673	4	ABL20834	Ab120834 Drosophil	c 493	14.4	72.0	2739	14	ADZ80618	Adz80618 cDNA sequ
c 421	14.8	74.0	8885	14	AEA49070	Aea49070 L. rhamno	c 494	14.4	72.0	3000	2	AAQ54675	Aaq54675 5' UTR an
c 422	14.8	74.0	12319	4	ABL17720	Ab117720 Drosophil	c 495	14.4	72.0	3000	2	AAQ62136	Aaq62136 Rice star
c 423	14.8	74.0	12319	4	ABL20830	Ab120830 Drosophil	c 496	14.4	72.0	3051	13	ADT45415	Adt45415 Bacterial
c 424	14.8	74.0	12849	14	ACL64500	Acl64500 M. xanthu	c 497	14.4	72.0	3210	4	ABL12861	Ab112861 Drosophil
c 425	14.8	74.0	13574	2	AXA13051	Aax13051 Enterococ	c 498	14.4	72.0	3255	8	ACA35114	Aca35114 Prokaryot
c 426	14.8	74.0	13574	6	ABS98846	Ab98846 Enterococ	c 499	14.4	72.0	3452	10	ADD24902	Add24902 DNA encod
c 427	14.8	74.0	24221	4	ABL09808	Ab109808 Drosophil	c 500	14.4	72.0	3453	3	RAD00242	Rad00242 Genomic D
c 428	14.8	74.0	25733	14	ACL64752	Acl64752 M. xanthu							
c 429	14.8	74.0	34125	6	ABS69903	Ab69903 Human ade							
c 430	14.8	74.0	36185	14	ABE44565	Ab44565 Sleep dis							
c 431	14.8	74.0	36534	11	ADL82795	Adl82795 Human sem							
c 432	14.8	74.0	37688	14	ABE35724_5	Ab35724_5 Continuation (6 of							
c 433	14.8	74.0	47670	4	ABL16824	Ab116824 Drosophil							
c 434	14.8	74.0	50368	4	ABL16768	Ab116768 Drosophil							
c 435	14.8	74.0	110000	4	AAI99682_16	Ab199682_16 Continuation (17 o							
c 436	14.8	74.0	110000	4	AAI99682_25	Ab199682_25 Continuation (17 o							
c 437	14.8	74.0	110000	4	AAI99683_16	Ab199683_16 Continuation (17 o							
c 438	14.8	74.0	110000	4	AAI99683_25	Ab199683_25 Continuation (26 o							
c 439	14.8	74.0	110000	12	ADO79173_2	Ado79173_2 Continuation (3 of							
c 440	14.8	74.0	110000	14	ADZ12821_3	Adz12821_3 Continuation (4 of							
c 441	14.8	74.0	110000	14	ABE35724_4	Ab35724_4 Continuation (5 of							
c 442	14.8	74.0	110000	14	ABE39175_01	Ab39175_01 Continuation (2 of							
c 443	14.8	74.0	110000	14	ABE42401_01	Ab42401_01 Continuation (2 of							
c 444	14.8	74.0	160198	10	ADL13962	Adl13962 Osteoarth							
c 445	14.8	74.0	254868	14	ADZ13236	Adz13236 Murine ca							
c 446	14.8	74.0	349980	6	ABQ81842	Abq81842 Bifidobac							
c 447	14.4	72.0	27	14	ADY72706	Ady72706 High amyl							
c 448	14.4	72.0	378	12	ADL17036	Adl17036 Mycobacte							
c 449	14.4	72.0	379	12	ADL17024	Adl17024 Mycobacte							
c 450	14.4	72.0	408	8	ACA54018	Aca54018 Prokaryot							
c 451	14.4	72.0	448	4	AAI93021	Aai93021 Human pol							
c 452	14.4	72.0	535	8	ABZ19269	Abz19269 Group III							
c 453	14.4	72.0	559	11	ACL31317	Acl31317 Rice abio							
c 454	14.4	72.0	612	4	ABK43101	Abk43101 Genomic s							
c 455	14.4	72.0	612	9	ADB61257	Adb61257 Connectiv							
c 456	14.4	72.0	616	11	ACL32889	Acl32889 Rice abio							
c 457	14.4	72.0	672	13	ADQ78485	Adq78485 Novel can							

## ALIGNMENTS

## RESULT 1

ADFS0205

ID ADF50205 standard; DNA; 1524 BP.

XX

AC ADF50205;

XX

DT 12-FEB-2004 (first entry)

XX

DE Wheat Teal AHA5 ALS1 ORF, SEQ ID 5.

XX

KW Wheat; plant; herbicide resistance; imidazolinone; IMI; mutant;

XX

KW acetohydroxyacid synthase; AHAS; weed control; ds.

XX

OS Triticum aestivum.

XX

PN WO2003014357-A1.

XX

PD 20-FEB-2003.

XX

PF 10-JUL-2002; 2002WO-CA001051.

XX

PR 09-AUG-2001; 2001US-0311282P.

XX

PA (UTSA-) UNIV SASKATCHEWAN.

XX

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2470.77 Seconds  
(without alignments)  
378.725 Million cell updates/sec

Title: US-10-805-973-5

Perfect score: 20

Sequence: 1 gggaggcattgccact 20

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST:

- 1: gb\_est1.\*
- 2: gb\_est2.\*
- 3: gb\_est3.\*
- 4: gb\_hic.\*
- 5: gb\_est4.\*
- 6: gb\_est5.\*
- 7: gb\_est6.\*
- 8: gb\_est7.\*
- 9: gb\_ges1.\*
- 10: gb\_ges2.\*
- 11: gb\_ges3.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	336	2	BE216970
2	20	100.0	542	2	BE402272
3	20	100.0	542	5	BQ607881
4	20	100.0	642	3	BQ290340
5	20	100.0	680	6	CD923248
6	20	100.0	697	1	AW447953
7	20	100.0	697	5	BQ605618
8	20	100.0	737	5	BU099465
9	20	100.0	1121	7	CK166070
10	20	100.0	1143	7	CK166817
11	20	100.0	1147	7	CK166638
12	20	100.0	1149	7	CK167517
13	20	100.0	1160	7	CK167307
14	20	100.0	1198	7	CK168204
15	19	95.0	544	2	B8637311
16	19	95.0	657	5	BQ833048
17	18.4	92.0	382	1	AL815430
18	18.4	92.0	437	2	BG262730
19	18.4	92.0	479	1	AL818714
20	18.4	92.0	556	9	BZ415292
21	18.4	92.0	595	10	CG412267
22	18.4	92.0	619	10	CG266503

23	18.4	92.0	635	7	CV064973
24	18.4	92.0	637	9	BZ419405
25	18.4	92.0	651	9	CC835629
26	18.4	92.0	652	2	B8616609
27	18.4	92.0	653	1	AB046243
28	18.4	92.0	752	10	CA430157
29	18.4	92.0	760	9	CC688500
30	18.4	92.0	772	10	CA417253
31	18.4	92.0	809	10	CG139795
32	18.4	92.0	818	9	CC688507
33	18.4	92.0	820	10	CG2694312
34	18.4	92.0	860	8	CV763823
35	18.4	92.0	877	7	CK164419
36	18.4	92.0	904	10	CG178338
37	18.4	92.0	950	5	BY714427
38	18.4	92.0	1149	7	CK167615
39	18.4	92.0	1216	4	AK014909
40	17.4	87.0	187	10	CA484598
41	17.4	87.0	394	5	CA002221
42	17.4	87.0	448	5	BU974149
43	17.4	87.0	452	2	BG158251
44	17.4	87.0	458	1	AU090161
45	17.4	87.0	463	1	AU090120
46	17.4	87.0	480	1	AJ466425
47	17.4	87.0	482	2	BE194893
48	17.4	87.0	547	2	BF723624
49	17.4	87.0	555	6	CA116914
50	17.4	87.0	564	10	CL939884
51	17.4	87.0	580	2	BF258592
52	17.4	87.0	583	1	AV932575
53	17.4	87.0	590	3	BI946606
54	17.4	87.0	622	10	CG711115
55	17.4	87.0	625	1	AV933951
56	17.4	87.0	630	6	CA240473
57	17.4	87.0	639	10	CA579325
58	17.4	87.0	648	6	CB883149
59	17.4	87.0	649	6	CA071692
60	17.4	87.0	659	6	CA114581
61	17.4	87.0	706	6	CA095528
62	17.4	87.0	708	2	BG367501
63	17.4	87.0	779	10	CA551510
64	17.4	87.0	830	6	CA077116
65	17.4	87.0	864	9	BZ737942
66	17.4	87.0	880	6	CD171634
67	17.4	87.0	893	10	CG2931507
68	17.4	87.0	1056	6	CA278959
69	17.4	87.0	3309	10	AY402375
70	17.4	87.0	3309	10	AY402376
71	16.8	84.0	491	2	BF276726
72	16.8	84.0	529	9	AQ358760
73	16.8	84.0	548	1	AI814408
74	16.8	84.0	656	10	CL810782
75	16.8	84.0	683	8	DR919474
76	16.8	84.0	701	10	CL761211
77	16.8	84.0	719	10	AG008268
78	16.8	84.0	736	10	CL713306
79	16.8	84.0	736	10	CL858016
80	16.8	84.0	850	9	CG913185
81	16.8	84.0	864	10	CL800384
82	16.8	84.0	875	8	DR919475
83	16.8	84.0	959	10	CG178340
84	16.8	84.0	1012	3	BM563664
85	16.4	82.0	159	2	BI124704
86	16.4	82.0	272	2	BE860131
87	16.4	82.0	286	6	CB375675
88	16.4	82.0	311	2	BE933629
89	16.4	82.0	311	2	BE933862
90	16.4	82.0	356	5	BY169378
91	16.4	82.0	396	10	CZ745821
92	16.4	82.0	417	10	CG663373
93	16.4	82.0	447	10	CA216596
94	16.4	82.0	460	2	BF787669
95	16.4	82.0	495	2	BB867229

CV064973	WNE117f3
BZ419405	1f53e06.b
CC835629	2MMBB018
BB616609	BB616609
AB046243	AB046243
CA430157	fsb5001f1
CC688500	OGWIK577H
CA417253	fsb5001f1
CG139795	PUIJF47TB
CC688507	OGWIK57TV
CG2694312	OC_BA000
CV763823	FGAS05840
CK164419	FGAS04832
CG178338	PUFLL37TB
BY714427	BY714427
CK167615	FGAS05201
AK014909	MUB_muscu
CA484598	fsb5001f2
CA002221	HS06N21r
BU974149	HB27A17r
BG158251	EM1_10_D0
AU090161	AU090161
AU090120	AU090120
AJ466425	AJ466425
BE194893	HVSMH008
BF723624	EST00060
CA116914	SCAGLR102
CL939884	OA_ABA005
BF258592	HVSMHf001
AV932575	AV932575
BI946606	HVSMH000
CG711115	1119020B0
AV933951	AV933951
CA240473	SCSBLF406
CA579325	OA_ABA010
CB883149	HQ01F18w
CA071692	SCBGM108
CA114581	SCRFUB105
CA095528	SCCCL507
BG367501	HVSMH001
CA551510	OA_ABA007
CA077116	SCQGM104
BZ737942	OGECU807M
CD171634	AGENCOURT
CG2931507	OGWFW38TH
CA278959	SCBFR309
AY402375	Homo sapi
AY402376	Pan trogl
BF276726	GA_Bb003
AQ358760	HS_5030_A
AI814408	wj73g06"x
CL810782	OR_CBA002
DR919474	EST11101
CL761211	OR_BBA013
AG008268	Homo sapi
CL713306	OR_BBA003
CL858016	OR_CBA008
CG913185	t077b06Ba
CL800384	OR_CBA001
DR919475	EST11101
CG178340	PUFLL37TD
BM563664	AGENCOURT
BI124704	1049P66P
BE860131	UI-N-AK0-
CB375675	rw14a03.y
BE933629	QV4-HT089
BE933862	QV4-HT089
BY169378	BY169378
CZ745821	OC_BA009
CG663373	OST48487
CA216596	104_649_1
BF787669	602114310
BB867229	BB867229

96	16.4	82.0	499	6	CB278999	CB278999 ru39d10.y	169	15.8	79.0	327	8	CX769605	CX769605 UI-D-GC1-
97	16.4	82.0	505	7	CK351103	CK351103 hggfha3D	170	15.8	79.0	328	8	D15163	D15163 RICC0189A.R
c 98	16.4	82.0	525	7	CK621918	CK621918 ml30d05.y	171	15.8	79.0	341	7	C0265579	C0265579 EK143114.
c 99	16.4	82.0	536	2	BE366209	BE366209 Pll_31_CO	172	15.8	79.0	361	7	C0265579	C0265579 EK143114.
c 100	16.4	82.0	546	10	CW239300	CW239300 104_697_1	173	15.8	79.0	361	7	C0265579	C0265579 EK143114.
c 101	16.4	82.0	548	1	AJ647689	AJ647689 AJ647689	c 174	15.8	79.0	367	9	AQ119501	AQ119501 HS_2269.A
c 102	16.4	82.0	555	7	CV351399	CV351399 MR3-FN000	c 175	15.8	79.0	367	9	AQ119501	AQ119501 HS_2269.A
c 103	16.4	82.0	559	1	AW745084	AW745084 LG1_386.G	c 176	15.8	79.0	385	2	BG961589	BG961589 PM0-CT054
c 104	16.4	82.0	583	9	AQ620109	AQ620109 HS_5188.A	c 177	15.8	79.0	393	3	B1613508	B1613508 RH42670.5
c 105	16.4	82.0	611	7	CK621006	CK621006 ml19b01.y	c 178	15.8	79.0	396	2	BE662125	BE662125 b824d06.y
c 106	16.4	82.0	619	10	CW218655	CW218655 104_652.1	c 179	15.8	79.0	396	7	CV003950	CV003950 csa01-2ms
c 107	16.4	82.0	627	1	AW106994	AW106994 um18c07.y	c 180	15.8	79.0	405	1	AA325064	AA325064 EST27992
c 108	16.4	82.0	636	6	CF173603	CF173603 B0926C02-y	c 181	15.8	79.0	405	8	DR705479	DR705479 Abn_05658
c 109	16.4	82.0	639	10	AY405008	AY405008 Mus muscu	c 182	15.8	79.0	413	10	AG976705	AG976705 DrGeophil
c 110	16.4	82.0	644	1	AV882396	AV882396 AV882396	c 183	15.8	79.0	417	5	BQ492543	BQ492543 EST01709
c 111	16.4	82.0	656	5	BY704117	BY704117 BY704117	c 184	15.8	79.0	421	10	CE299280	CE299280 tigr-g88-
c 112	16.4	82.0	681	1	AV895997	AV895997 AV895997	c 185	15.8	79.0	429	2	B5670700	B5670700 7e40a03.x
c 113	16.4	82.0	683	10	CW112799	CW112799 104_486.1	c 186	15.8	79.0	437	1	AJ650499	AJ650499 AJ650499
c 114	16.4	82.0	698	3	BM934001	BM934001 UI-M-CGDP	c 187	15.8	79.0	444	8	DR699747	DR699747 An_1480.M
c 115	16.4	82.0	701	5	BW449888	BW449888 BW449888	c 188	15.8	79.0	447	2	BE167362	BE167362 CM2-HT050
c 116	16.4	82.0	701	10	CW791005	CW791005 SP_Ba007	c 189	15.8	79.0	448	1	AI180244	AI180244 EST233987
c 117	16.4	82.0	703	6	CB600076	CB600076 AGENCOURT	c 190	15.8	79.0	452	5	B0659469	B0659469 CL48b04.2
c 118	16.4	82.0	710	3	BI407942	BI407942 602919395	c 191	15.8	79.0	453	3	BI566115	BI566115 RH35240.5
c 119	16.4	82.0	712	10	C2834686	C2834686 OC_Ba021	c 192	15.8	79.0	464	1	AW961649	AW961649 EST373722
c 120	16.4	82.0	741	3	BI407420	BI407420 602919395	c 193	15.8	79.0	467	1	AA060159	AA060159 mj72e04.x
c 121	16.4	82.0	741	9	CC529204	CC529204 OGUILY74TH	c 194	15.8	79.0	470	10	CW762099	CW762099 OG_BBa007
c 122	16.4	82.0	748	5	BW419082	BW419082 BW419082	c 195	15.8	79.0	472	1	AA080257	AA080257 mm34c10.x
c 123	16.4	82.0	772	2	BF782967	BF782967 602109052	c 196	15.8	79.0	482	7	CV723210	CV723210 rootc-002.x
c 124	16.4	82.0	773	3	BI905557	BI905557 603167721	c 197	15.8	79.0	484	7	CL952316	CL952316 OBURUA000
c 125	16.4	82.0	774	5	BW473501	BW473501 BW473501	c 198	15.8	79.0	486	1	AI605748	AI605748 ma66d08.y
c 126	16.4	82.0	776	6	CA491271	CA491271 AGENCOURT	c 199	15.8	79.0	488	3	BI448853	BI448853 dac70a08.
c 127	16.4	82.0	777	2	BF789751	BF789751 602105309	c 200	15.8	79.0	489	4	AY232078	AY232078 Drosophil
c 128	16.4	82.0	779	9	CC373947	CC373947 FUERHD69TD	c 201	15.8	79.0	491	3	BI373758	BI373758 RE61161.5
c 129	16.4	82.0	786	5	BW015603	BW015603 BW015603	c 202	15.8	79.0	495	6	CB713171	CB713171 AGNNUC:N
c 130	16.4	82.0	786	5	BW406578	BW406578 BW406578	c 203	15.8	79.0	497	9	BZ282118	BZ282118 CH230-335
c 131	16.4	82.0	793	10	CW090378	CW090378 104_436.1	c 204	15.8	79.0	511	1	AA044540	AA044540 mj10h07.x
c 132	16.4	82.0	798	10	CW605949	CW605949 OA_ABa014	c 205	15.8	79.0	516	9	BH226581	BH226581 100613380
c 133	16.4	82.0	809	7	CJ416010	CJ416010 CJ416010	c 206	15.8	79.0	520	1	AA169135	AA169135 zp20c09.8
c 134	16.4	82.0	815	10	CW708670	CW708670 AIAA-aab5	c 207	15.8	79.0	520	10	CE452689	CE452689 tigr-g88-
c 135	16.4	82.0	859	2	BF786665	BF786665 602111425	c 208	15.8	79.0	525	6	CB720149	CB720149 AGNNUC:N
c 136	16.4	82.0	891	3	BI526426	BI526426 602925555	c 209	15.8	79.0	527	6	CD913579	CD913579 G550.118G
c 137	16.4	82.0	920	2	BF782495	BF782495 602106510	c 210	15.8	79.0	527	7	CK225944	CK225944 703234657
c 138	16.4	82.0	927	3	BI524921	BI524921 602924621	c 211	15.8	79.0	534	5	AV432502	AV432502 AV432502
c 139	16.4	82.0	929	9	BZ696177	BZ696177 SP_Ba007	c 212	15.8	79.0	535	6	CD626243	CD626243 56066117H
c 140	16.4	82.0	978	3	BQ220455	BQ220455 AGENCOURT	c 213	15.8	79.0	537	5	BI623723	BI623723 RH56052.5
c 141	16.4	82.0	978	3	BQ220455	BQ220455 AGENCOURT	c 214	15.8	79.0	537	5	EX500637	EX500637 DKFp779N
c 142	16.4	82.0	997	5	BY712283	BY712283 EST754748	c 215	15.8	79.0	538	6	CD626242	CD626242 56053113J
c 143	16.4	82.0	1144	4	AK003860	AK003860 Mus muscu	c 216	15.8	79.0	539	3	BI367272	BI367272 RE53008.5
c 144	16.4	82.0	1250	4	AK013276	AK013276 Mus muscu	c 217	15.8	79.0	544	3	BI611442	BI611442 RH17657.5
c 145	16.4	82.0	1276	4	AK006068	AK006068 Mus muscu	c 218	15.8	79.0	545	6	CD626241	CD626241 56053113H
c 146	16.4	82.0	1309	10	AY402377	AY402377 Mus muscu	c 219	15.8	79.0	545	7	CO293412	CO293412 EK202885.
c 147	16.4	82.0	1405	2	AK040543	AK040543 Mus muscu	c 220	15.8	79.0	546	1	AW961645	AW961645 EST373718
c 148	16.4	82.0	148	9	BZ328241	BZ328241 id36e03.g	c 221	15.8	79.0	547	1	AV437889	AV437889 AV437889
c 149	16.4	82.0	149	7	CK304000	CK304000 SB02022A2	c 222	15.8	79.0	547	7	CK225937	CK225937 702145365
c 150	16.4	82.0	158	9	BZ734001	BZ734001 OGFCJ21TC	c 223	15.8	79.0	548	5	BU103340	BU103340 SCCCHRL00
c 151	16.4	82.0	158	9	BZ734007	BZ734007 OGFCJ21TC	c 224	15.8	79.0	548	6	CA101176	CA101176 SCCCHRL00
c 152	16.4	82.0	1384	10	AG133471	AG133471 Pan trogl	c 225	15.8	79.0	549	1	AW961643	AW961643 EST373716
c 153	15.8	79.0	91	9	BH226656	BH226656 1006133G0	c 226	15.8	79.0	551	2	BE503965	BE503965 hz53901.x
c 154	15.8	79.0	227	7	CK225922	CK225922 701913754	c 227	15.8	79.0	555	7	CK134793	CK134793 RH02211.3
c 155	15.8	79.0	228	2	BH583500	BH583500 BH583500	c 228	15.8	79.0	559	6	CD626245	CD626245 56066225H
c 156	15.8	79.0	229	9	AO650881	AO650881 Sheared D	c 229	15.8	79.0	561	3	BI483760	BI483760 RE66691.5
c 157	15.8	79.0	231	8	W09954	W09954 ma66d08.x1	c 230	15.8	79.0	561	3	BI612590	BI612590 RH41518.5
c 158	15.8	79.0	253	7	CK225919	CK225919 700597359	c 231	15.8	79.0	565	2	BF933049	BF933049 7704806.x
c 159	15.8	79.0	260	2	BG304743	BG304743 f198c05.y	c 232	15.8	79.0	566	7	CN307972	CN307972 170005325
c 160	15.8	79.0	267	6	CF138971	CF138971 UI-HF-CB0	c 233	15.8	79.0	570	8	EX100346	EX100346 RECN1202
c 161	15.8	79.0	269	3	BI577608	BI577608 RE71317.5	c 234	15.8	79.0	572	3	BU197271	BU197271 BJ197271
c 162	15.8	79.0	273	9	AQ073352	AQ073352 l(3)neolB	c 235	15.8	79.0	573	10	CZ852841	CZ852841 OC_Ba024
c 163	15.8	79.0	282	3	EX616315	EX616315 EX616315	c 236	15.8	79.0	575	3	BJ190582	BJ190582 BJ190582
c 164	15.8	79.0	286	3	BI607873	BI607873 RH11844.5	c 237	15.8	79.0	577	3	BE240318	BE240318 BP240318
c 165	15.8	79.0	287	9	AZ379074	AZ379074 1M0134C07	c 238	15.8	79.0	577	10	CW188150	CW188150 104_607_1
c 166	15.8	79.0	300	7	CK218707	CK218707 701487867	c 239	15.8	79.0	583	3	BP344333	BP344333 BP344333
c 167	15.8	79.0	306	1	AA323010	AA323010 EST25742	c 240	15.8	79.0	584	2	BI242013	BI242013 RE39227.5
c 168	15.8	79.0	307	7	CK225923	CK225923 701919205	c 241	15.8	79.0	584	5	BX477584	BX477584 DKFp6686K

242	15.8	79.0	585	2	BE975291	be41a06.y	BE975291	be41a06.y	315	15.8	79.0	752	7	CN245379	EST011261
243	15.8	79.0	585	6	CA081925	SCAGAM202	CA081925	SCAGAM202	C 316	15.8	79.0	757	7	CK225943	703125904
244	15.8	79.0	585	9	AO292460	HS 2264 A	AO292460	HS 2264 A	C 317	15.8	79.0	759	9	BZ725779	OGFBS507M
245	15.8	79.0	587	7	CK225945	703242260	CK225945	703242260	C 318	15.8	79.0	764	7	CV080415	AGENCOURT
246	15.8	79.0	588	3	BI634086	RH37293.5	BI634086	RH37293.5	C 319	15.8	79.0	770	5	BUS17633	AGENCOURT
247	15.8	79.0	588	6	CA582700	EST002375	CA582700	EST002375	C 320	15.8	79.0	776	8	DR945014	EST113655
248	15.8	79.0	591	10	CL098113	OBIFCC035	CL098113	OBIFCC035	C 321	15.8	79.0	779	9	BZ994905	FUGEH167B
249	15.8	79.0	597	3	BI617647	RH48046.5	BI617647	RH48046.5	C 322	15.8	79.0	790	7	CK225949	704326660
250	15.8	79.0	598	2	BG396288	602459078	BG396288	602459078	C 323	15.8	79.0	791	8	CK622606	GABRI 65
251	15.8	79.0	606	6	CA142340	SCMCR7208	CA142340	SCMCR7208	C 324	15.8	79.0	792	7	CK032120	AGENCOURT
252	15.8	79.0	607	7	CK225939	70258574	CK225939	70258574	C 325	15.8	79.0	793	9	CC634145	OGWE086TV
253	15.8	79.0	608	3	BI613010	RH42061.5	BI613010	RH42061.5	C 326	15.8	79.0	799	2	BI146842	602911741
254	15.8	79.0	609	7	CK225947	703964885	CK225947	703964885	C 327	15.8	79.0	801	9	CC664967	OGJBG46TV
255	15.8	79.0	610	8	DN422359	LI84216.0	DN422359	LI84216.0	C 328	15.8	79.0	811	2	BG866479	602785427
256	15.8	79.0	617	3	BI607168	RH74177.5	BI607168	RH74177.5	C 329	15.8	79.0	820	7	CK225946	703902310
257	15.8	79.0	620	10	CE696403	tigr-g88-	CE696403	tigr-g88-	C 330	15.8	79.0	824	3	BI655319	603283348
258	15.8	79.0	621	2	BG394067	602456227	BG394067	602456227	C 331	15.8	79.0	831	10	CZ309064	ZMBF0005
259	15.8	79.0	621	6	CA081570	SCAGAM201	CA081570	SCAGAM201	C 332	15.8	79.0	838	2	BG774405	602662451
260	15.8	79.0	623	10	CH826017	tigr-g88-	CH826017	tigr-g88-	C 333	15.8	79.0	876	2	BG329891	602429586
261	15.8	79.0	624	3	BI580407	RE74596.5	BI580407	RE74596.5	C 334	15.8	79.0	883	5	BQ946535	AGENCOURT
262	15.8	79.0	624	10	CW856459	sh2a19.14	CW856459	sh2a19.14	C 335	15.8	79.0	886	5	BQ931813	AGENCOURT
263	15.8	79.0	626	2	BG028469	602294380	BG028469	602294380	C 336	15.8	79.0	886	6	CH202962	AGENCOURT
264	15.8	79.0	626	6	CA753583	002200190	CA753583	002200190	C 337	15.8	79.0	894	3	BI957835	HVSMen001
265	15.8	79.0	629	10	CL181635	104_392.1	CL181635	104_392.1	C 338	15.8	79.0	898	2	BG730652	601569849
266	15.8	79.0	635	11	DE090027	Oryz18a_1	DE090027	Oryz18a_1	C 339	15.8	79.0	910	5	BU501720	AGENCOURT
267	15.8	79.0	636	2	BE255986	601113382	BE255986	601113382	C 340	15.8	79.0	912	8	DR919286	EST111082
268	15.8	79.0	639	2	BG773888	602661590	BG773888	602661590	C 341	15.8	79.0	912	8	DR939121	EST111066
269	15.8	79.0	641	10	CW144270	104_536.1	CW144270	104_536.1	C 342	15.8	79.0	918	8	DR919287	EST111082
270	15.8	79.0	645	7	CF947073	UI-D-GC1-	CF947073	UI-D-GC1-	C 343	15.8	79.0	940	5	BQ924602	AGENCOURT
271	15.8	79.0	645	7	CF947073	UI-D-GC1-	CF947073	UI-D-GC1-	C 344	15.8	79.0	944	5	BQ957168	AGENCOURT
272	15.8	79.0	646	6	CA135603	SCJLRT102	CA135603	SCJLRT102	C 345	15.8	79.0	947	7	CF883258	tr1c033xm
273	15.8	79.0	646	10	CW413645	fbbb001f1	CW413645	fbbb001f1	C 346	15.8	79.0	954	10	CNS000RX	AL050777 Drocephal
274	15.8	79.0	651	10	CZ165594	OC Ba000	CZ165594	OC Ba000	C 347	15.8	79.0	984	7	CO546991	LYEST3163
275	15.8	79.0	654	3	BI591339	RH05092.5	BI591339	RH05092.5	C 348	15.8	79.0	1010	5	EX378261	EX378261
276	15.8	79.0	660	9	BH214891	1006012C0	BH214891	1006012C0	C 349	15.8	79.0	1015	10	CG112896	PUBBBS2TB
277	15.8	79.0	663	2	BG329242	602428308	BG329242	602428308	C 350	15.8	79.0	1024	2	BG395482	602458067
278	15.8	79.0	663	6	CA066030	SCBGAD102	CA066030	SCBGAD102	C 351	15.8	79.0	1037	10	CG112898	PUBBBS2TD
279	15.8	79.0	666	3	BI588543	RH29902.5	BI588543	RH29902.5	C 352	15.8	79.0	1065	1	AL548109	AL548109
280	15.8	79.0	673	6	CD626244	56066117J	CD626244	56066117J	C 353	15.8	79.0	1099	2	BE730636	601569832
281	15.8	79.0	674	6	CB845945	M2PN-1657	CB845945	M2PN-1657	C 354	15.8	79.0	1109	8	DR735974	FGAS08148
282	15.8	79.0	675	7	CK476694	AGENCOURT	CK476694	AGENCOURT	C 355	15.8	79.0	1113	2	BG395376	602457921
283	15.8	79.0	676	3	BI619076	RH50045.5	BI619076	RH50045.5	C 356	15.8	79.0	1134	3	BM545936	AGENCOURT
284	15.8	79.0	676	6	CA619282	w1ln.pk00	CA619282	w1ln.pk00	C 357	15.8	79.0	1347	11	DQ036349	Hom0 bsp1
285	15.8	79.0	676	10	AG292125	Mus muscu	AG292125	Mus muscu	C 358	15.8	79.0	1402	8	DN693731	CGX90-B07
286	15.8	79.0	678	9	BZ335145	hx95g09.b	BZ335145	hx95g09.b	C 359	15.8	79.0	2279	4	CR593250	full1-leng
287	15.8	79.0	679	3	BI569990	RH02211.5	BI569990	RH02211.5	C 360	15.8	79.0	2698	4	AK081367	Mus muscu
288	15.8	79.0	686	2	BE309136	601093328	BE309136	601093328	C 361	15.4	77.0	101	1	AI491401	486022C02
289	15.8	79.0	690	6	CA191510	SCCORT2C0	CA191510	SCCORT2C0	C 362	15.4	77.0	202	3	BM140559	WHE0485.h
290	15.8	79.0	696	6	CD913580	G550.118G	CD913580	G550.118G	C 363	15.4	77.0	233	9	AZ347485	LM0083A08
291	15.8	79.0	701	10	AG341973	Mus muscu	AG341973	Mus muscu	C 364	15.4	77.0	287	8	R35753	YH90C01.r1
292	15.8	79.0	705	2	BI104307	602889876	BI104307	602889876	C 365	15.4	77.0	305	3	BI758225	603029870
293	15.8	79.0	707	8	DR026508	Oemc00360	DR026508	Oemc00360	C 366	15.4	77.0	326	2	BF364877	QVO-NN114
294	15.8	79.0	708	10	CW188151	104_607.1	CW188151	104_607.1	C 367	15.4	77.0	352	1	AI944971	bs07e09.y
295	15.8	79.0	709	7	CK225948	704324043	CK225948	704324043	C 368	15.4	77.0	376	8	TE63103	Yb97e06.r1
296	15.8	79.0	710	9	CF722285	OG0EB62TH	CF722285	OG0EB62TH	C 369	15.4	77.0	418	7	CN370135	170004710
297	15.8	79.0	712	6	CF547372	AGENCOURT	CF547372	AGENCOURT	C 370	15.4	77.0	420	7	CO822634	LM GB5.00
298	15.8	79.0	713	10	CW191688	104_613.1	CW191688	104_613.1	C 371	15.4	77.0	422	7	CK884119	SGF147979
299	15.8	79.0	718	10	CL150363	104_332.1	CL150363	104_332.1	C 372	15.4	77.0	425	9	CO644298	fgma007e0
300	15.8	79.0	720	2	BF215064	601846726	BF215064	601846726	C 373	15.4	77.0	429	10	AG937063	Drosophill
301	15.8	79.0	723	8	CK623018	GABRI 67	CK623018	GABRI 67	C 374	15.4	77.0	442	7	CO822616	LM GB5.00
302	15.8	79.0	724	11	CR813311	GROAA37D	CR813311	GROAA37D	C 375	15.4	77.0	445	9	AQ849280	LMJFV1.1
303	15.8	79.0	726	1	AI961707	wt66c10.x	AI961707	wt66c10.x	C 376	15.4	77.0	454	7	CF959524	11925r8fC
304	15.8	79.0	729	9	BZ994910	PUGEH16TD	BZ994910	PUGEH16TD	C 377	15.4	77.0	479	7	CK130601	CK130601
305	15.8	79.0	739	1	AI113698	GH10129.5	AI113698	GH10129.5	C 378	15.4	77.0	506	1	AW064858	ST36F09.P
306	15.8	79.0	739	7	CK225941	702805028	CK225941	702805028	C 379	15.4	77.0	519	6	CA362879	637210.NC
307	15.8	79.0	740	5	BQ705205	Y1A01A02	BQ705205	Y1A01A02	C 380	15.4	77.0	519	6	CA597186	wpa1c.pk0
308	15.8	79.0	741	6	CA075084	SCJFAM106	CA075084	SCJFAM106	C 381	15.4	77.0	523	1	AW941810	GH15479.3
309	15.8	79.0	741	10	CE833412	tigr-g88-	CE833412	tigr-g88-	C 382	15.4	77.0	528	6	CA769335	esalrqb53
310	15.8	79.0	744	6	CA945274	UI-M-PD0-	CA945274	UI-M-PD0-	C 383	15.4	77.0	533	3	BJ277170	BJ277170
311	15.8	79.0	745	8	DN932851	AGENCOURT	DN932851	AGENCOURT	C 384	15.4	77.0	533	5	CA041949	esalplnb5
312	15.8	79.0	748	7	CK218708	704196818	CK218708	704196818	C 385	15.4	77.0	556	9	AQ675248	HS 5485.B
313	15.8	79.0	750	6	CF546813	AGENCOURT	CF546813	AGENCOURT	C 386	15.4	77.0	557	7	CO822613	LM GB5.00
314	15.8	79.0	752	2	BE394336	601311475	BE394336	601311475	C 387	15.4	77.0	563	7	CK886386	SGF166818

C 388	15.4	77.0	568	5	BU997607	HI08H17r
C 389	15.4	77.0	573	6	CB858838	HI08H17w
C 390	15.4	77.0	574	5	CA052296	CA052296
C 391	15.4	77.0	574	5	CA052296	CA052296
C 392	15.4	77.0	575	6	CA052296	CA052296
C 393	15.4	77.0	582	6	CA052296	CA052296
C 394	15.4	77.0	584	3	BP324413	BP324413
C 395	15.4	77.0	588	6	CA381743	CA381743
C 396	15.4	77.0	589	7	CO222615	CO222615
C 397	15.4	77.0	591	2	BG710140	BG710140
C 398	15.4	77.0	597	7	CV173174	CV173174
C 399	15.4	77.0	614	6	CB050525	CB050525
C 400	15.4	77.0	621	9	AO779706	AO779706
C 401	15.4	77.0	622	7	CO600038	CO600038
C 402	15.4	77.0	626	10	C2603264	C2603264
C 403	15.4	77.0	627	6	CB504215	CB504215
C 404	15.4	77.0	630	9	AZ399550	AZ399550
C 405	15.4	77.0	635	7	CN989426	CN989426
C 406	15.4	77.0	639	10	CL980884	CL980884
C 407	15.4	77.0	641	7	CN984260	CN984260
C 408	15.4	77.0	641	11	DR014460	DR014460
C 409	15.4	77.0	643	5	CA054283	CA054283
C 410	15.4	77.0	650	7	CO833447	CO833447
C 411	15.4	77.0	651	10	CL938632	CL938632
C 412	15.4	77.0	653	3	BM370495	BM370495
C 413	15.4	77.0	678	3	BM610498	BM610498
C 414	15.4	77.0	679	7	CO822614	CO822614
C 415	15.4	77.0	680	10	CM578325	CM578325
C 416	15.4	77.0	686	5	CA050897	CA050897
C 417	15.4	77.0	691	6	CA380973	CA380973
C 418	15.4	77.0	695	6	CO822617	CO822617
C 419	15.4	77.0	696	6	CA346637	CA346637
C 420	15.4	77.0	700	7	CN975392	CN975392
C 421	15.4	77.0	703	6	CA361301	CA361301
C 422	15.4	77.0	709	9	CC494752	CC494752
C 423	15.4	77.0	710	6	CA344135	CA344135
C 424	15.4	77.0	720	9	BZ893394	BZ893394
C 425	15.4	77.0	723	6	CA350162	CA350162
C 426	15.4	77.0	739	10	CM780715	CM780715
C 427	15.4	77.0	741	6	CB514471	CB514471
C 428	15.4	77.0	741	7	CN988217	CN988217
C 429	15.4	77.0	749	7	CV043226	CV043226
C 430	15.4	77.0	765	7	CO474937	CO474937
C 431	15.4	77.0	773	10	BX188401	BX188401
C 432	15.4	77.0	787	5	BX081020	BX081020
C 433	15.4	77.0	788	10	BX232420	BX232420
C 434	15.4	77.0	794	9	AQ729407	AQ729407
C 435	15.4	77.0	795	11	CR184863	CR184863
C 436	15.4	77.0	810	10	C2246419	C2246419
C 437	15.4	77.0	811	6	CB515234	CB515234
C 438	15.4	77.0	811	8	CV766334	CV766334
C 439	15.4	77.0	818	10	CL906398	CL906398
C 440	15.4	77.0	835	8	CV774272	CV774272
C 441	15.4	77.0	854	10	C2376159	C2376159
C 442	15.4	77.0	859	10	AG897646	AG897646
C 443	15.4	77.0	870	8	CV771286	CV771286
C 444	15.4	77.0	872	10	CG875740	CG875740
C 445	15.4	77.0	882	8	DR574038	DR574038
C 446	15.4	77.0	887	10	C2208733	C2208733
C 447	15.4	77.0	892	6	CA372771	CA372771
C 448	15.4	77.0	893	2	BF105385	BF105385
C 449	15.4	77.0	945	10	C2973464	C2973464
C 450	15.4	77.0	950	9	BZ578330	BZ578330
C 451	15.4	77.0	956	9	CC399469	CC399469
C 452	15.4	77.0	1093	10	CNS01892	CNS01892
C 453	15.4	77.0	1163	8	DN706364	DN706364
C 454	15.4	77.0	1357	8	DN694001	DN694001
C 455	15.2	76.0	72	10	CG713335	CG713335
C 456	15.2	76.0	93	10	AL756361	AL756361
C 457	15.2	76.0	100	9	BH644291	BH644291
C 458	15.2	76.0	109	9	BH407921	BH407921
C 459	15.2	76.0	112	9	BH643356	BH643356
C 460	15.2	76.0	115	6	CF433997	CF433997

C 461	15.2	76.0	119	6	CD086558	CD086558
C 462	15.2	76.0	121	9	BH217663	BH217663
C 463	15.2	76.0	131	9	BH234445	BH234445
C 464	15.2	76.0	141	1	AJ497133	AJ497133
C 465	15.2	76.0	141	9	BH407142	BH407142
C 466	15.2	76.0	151	9	BH224595	BH224595
C 467	15.2	76.0	158	9	BH416419	BH416419
C 468	15.2	76.0	160	9	BH619518	BH619518
C 469	15.2	76.0	165	9	BH639956	BH639956
C 470	15.2	76.0	166	2	BH643681	BH643681
C 471	15.2	76.0	169	9	BH644943	BH644943
C 472	15.2	76.0	189	9	BH629804	BH629804
C 473	15.2	76.0	209	9	BH806643	BH806643
C 474	15.2	76.0	226	9	BH413565	BH413565
C 475	15.2	76.0	227	7	CR735534	CR735534
C 476	15.2	76.0	227	8	D60459	D60459
C 477	15.2	76.0	240	1	AI934255	AI934255
C 478	15.2	76.0	247	9	CC455384	CC455384
C 479	15.2	76.0	248	1	AA707498	AA707498
C 480	15.2	76.0	257	10	AG267848	AG267848
C 481	15.2	76.0	262	2	BF955711	BF955711
C 482	15.2	76.0	263	2	BG996903	BG996903
C 483	15.2	76.0	269	1	AA425625	AA425625
C 484	15.2	76.0	272	9	BH232104	BH232104
C 485	15.2	76.0	273	1	AA370842	AA370842
C 486	15.2	76.0	277	11	CR061002	CR061002
C 487	15.2	76.0	282	5	EX112234	EX112234
C 488	15.2	76.0	291	1	AW801453	AW801453
C 489	15.2	76.0	293	2	BF955477	BF955477
C 490	15.2	76.0	294	1	AA643009	AA643009
C 491	15.2	76.0	295	10	CG708109	CG708109
C 492	15.2	76.0	299	1	AA853773	AA853773
C 493	15.2	76.0	299	6	CA414344	CA414344
C 494	15.2	76.0	303	7	CV337183	CV337183
C 495	15.2	76.0	305	1	AA938270	AA938270
C 496	15.2	76.0	312	9	BH417728	BH417728
C 497	15.2	76.0	321	7	CV337158	CV337158
C 498	15.2	76.0	322	1	AA887287	AA887287
C 499	15.2	76.0	328	6	CD011166	CD011166
C 500	15.2	76.0	330	3	BF060196	BF060196

## ALIGNMENTS

RESULT 1	BE216970/c	336 bp	mRNA	linear	EST 03-JUL-2000
LOCUS	BE216970.1	GI:8904656			
DEFINITION	EST0513 Triticum aestivum Lambda Zap Triticum aestivum cDNA clone JAL 5C E09 T3 5' similar to Putative acetohydroxyacid synthase, mRNA sequence.				
ACCESSION	BE216970				
VERSION	BE216970.1				
KEYWORDS	EST.				
SOURCE	Triticum aestivum (bread wheat)				
ORGANISM	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Poales; Poaceae; Triticeae; Triticaceae; Triticum.				
REFERENCE	1 (bases 1 to 336)				
AUTHORS	Anderson, J.M., Williams, C.E. and Goodwin, S.B.				
TITLE	Analysis of an EST database reveals a probable CF2 resistance gene homolog in wheat				
JOURNAL	unpublished (2000)				
COMMENT	Contact: Anderson, J.M. Crop Production & Pest Control Research Unit USDA-ARS 1150 Lilly Hall, West Lafayette, IN 47907, USA Tel: 765-494-5565 Fax: 765-496-2926 Email: janderson@purdue.edu Seq primer: T3 High quality sequence stop: 336.				



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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 69.1124 Seconds  
(without alignments)  
514.397 Million cell updates/sec

Title: US-10-805-973-5

Perfect score: 20

Sequence: 1 999aggggcatcgccact 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

Issued Patents NA.\*  
1: /cgm2\_6/ptodata/1/ina/1 COMB.seq.\*  
2: /cgm2\_6/ptodata/1/ina/5 COMB.seq.\*  
3: /cgm2\_6/ptodata/1/ina/6A COMB.seq.\*  
4: /cgm2\_6/ptodata/1/ina/6B COMB.seq.\*  
5: /cgm2\_6/ptodata/1/ina/H COMB.seq.\*  
6: /cgm2\_6/ptodata/1/ina/PCBUS COMB.seq.\*  
7: /cgm2\_6/ptodata/1/ina/PP COMB.seq.\*  
8: /cgm2\_6/ptodata/1/ina/RE COMB.seq.\*  
9: /cgm2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	17.4	87.0	4134	2	US-08-817-090B-1
2	17.4	87.0	4137	2	US-08-817-090B-3
3	17.4	87.0	5162	2	US-08-916-917-13
4	17.4	87.0	5162	3	US-09-225-170-13
5	16.4	82.0	1668	3	US-08-968-563-1
6	16.4	82.0	1668	3	US-08-969-683A-1
7	16.4	82.0	1668	3	US-09-307-973A-6
8	16.4	82.0	1668	3	US-09-308-207-1
9	16.4	82.0	1671	3	US-09-489-039A-2187
10	16.4	82.0	3117	2	US-08-172-331B-3
11	16.4	82.0	5268	3	US-08-830-751-9
12	16.4	82.0	12145	3	US-08-968-563-19
13	16.4	82.0	12145	3	US-08-969-683A-19
14	16.4	82.0	12145	3	US-09-369-796-1
15	16.4	82.0	12145	3	US-09-307-973A-10
16	16.4	82.0	12145	3	US-09-641-652-1
17	16.4	82.0	12145	3	US-09-308-207-19
18	16.4	82.0	13543	3	US-10-127-862-1
19	15.8	79.0	741	3	US-09-270-767-13758
20	15.8	79.0	2084	3	US-09-152-060-11
21	15.8	79.0	2084	3	US-09-852-797-11
22	15.8	79.0	2084	3	US-09-853-161-11
23	15.8	79.0	2084	3	US-10-058-993-11
24	15.8	79.0	36181	3	US-08-311-731A-120

c 25	15.8	79.0	84587	3	US-09-949-016-15733	Sequence 15733, A
c 26	15.8	79.0	89047	3	US-09-596-002-34	Sequence 34, Appl
c 27	15.4	77.0	753	3	US-09-540-236-1304	Sequence 1304, Ap
c 28	15.4	77.0	37769	3	US-08-311-731A-23	Sequence 23, Appl
c 29	15.4	77.0	393753	3	US-09-949-016-14573	Sequence 14573, A
c 30	15.4	77.0	393753	3	US-09-949-016-14574	Sequence 14574, A
c 31	15.4	77.0	818128	3	US-09-949-016-14546	Sequence 14546, A
c 32	15.4	77.0	818128	3	US-09-949-016-14547	Sequence 14547, A
c 33	15.4	77.0	818128	3	US-09-949-016-14548	Sequence 14548, A
c 34	15.4	77.0	818128	3	US-09-949-016-14549	Sequence 14549, A
c 35	15.4	77.0	818128	3	US-09-949-016-14550	Sequence 14550, A
c 36	15.4	77.0	818128	3	US-09-949-016-14551	Sequence 14551, A
c 37	15.4	77.0	818128	3	US-09-949-016-14552	Sequence 14552, A
c 38	15.4	77.0	818128	3	US-09-949-016-14553	Sequence 14553, A
c 39	15.4	77.0	818128	3	US-09-949-016-14554	Sequence 14554, A
c 40	15.4	77.0	818128	3	US-09-949-016-14555	Sequence 14555, A
c 41	15.4	77.0	818128	3	US-09-949-016-14556	Sequence 14556, A
c 42	15.4	77.0	818128	3	US-09-949-016-14557	Sequence 14557, A
c 43	15.4	77.0	818128	3	US-09-949-016-14558	Sequence 14558, A
c 44	15.4	77.0	818128	3	US-09-949-016-14559	Sequence 14559, A
c 45	15.4	77.0	818128	3	US-09-949-016-14560	Sequence 14560, A
c 46	15.4	77.0	818128	3	US-09-949-016-14561	Sequence 14561, A
c 47	15.4	77.0	818128	3	US-09-949-016-14562	Sequence 14562, A
c 48	15.4	77.0	818128	3	US-09-949-016-14564	Sequence 14564, A
c 49	15.4	77.0	818128	3	US-09-949-016-14565	Sequence 14565, A
c 50	15.4	77.0	818128	3	US-09-949-016-14566	Sequence 14566, A
c 51	15.4	77.0	818128	3	US-09-949-016-14567	Sequence 14567, A
c 52	15.2	76.0	264	3	US-09-107-532A-2112	Sequence 2112, Ap
c 53	15.2	76.0	357	2	US-08-673-190A-6	Sequence 6, Appli
c 54	15.2	76.0	514	3	US-08-875-573-5	Sequence 5, Appli
c 55	15.2	76.0	514	3	US-09-764-413-5	Sequence 5, Appli
c 56	15.2	76.0	600	3	US-09-107-532A-3027	Sequence 3027, Ap
c 57	15.2	76.0	686	3	US-09-533-559-5903	Sequence 5903, Ap
c 58	15.2	76.0	987	3	US-09-543-681A-323	Sequence 323, App
c 59	15.2	76.0	1005	3	US-09-252-991A-1549	Sequence 1549, Ap
c 60	15.2	76.0	1095	3	US-10-258-842-1	Sequence 1, Appli
c 61	15.2	76.0	1386	3	US-09-489-039A-6203	Sequence 6203, Ap
c 62	15.2	76.0	1417	3	US-09-949-016-4521	Sequence 4521, Ap
c 63	15.2	76.0	1452	3	US-09-489-039A-5847	Sequence 5847, Ap
c 64	15.2	76.0	1476	3	US-09-976-594-147	Sequence 147, App
c 65	15.2	76.0	1491	3	US-09-252-991A-10210	Sequence 10210, A
c 66	15.2	76.0	1492	3	US-09-232-855-637	Sequence 637, App
c 67	15.2	76.0	1607	3	US-08-875-573-19	Sequence 19, Appl
c 68	15.2	76.0	1607	3	US-09-764-413-19	Sequence 19, Appl
c 69	15.2	76.0	1659	3	US-09-252-991A-1566	Sequence 1566, Ap
c 70	15.2	76.0	1677	3	US-09-939-107-33	Sequence 33, Appl
c 71	15.2	76.0	1677	3	US-09-016-434-1117	Sequence 1117, Ap
c 72	15.2	76.0	1677	3	US-09-023-655-933	Sequence 933, App
c 73	15.2	76.0	1677	3	US-09-067-447B-33	Sequence 33, Appl
c 74	15.2	76.0	1677	3	US-09-837-446-1	Sequence 1, Appli
c 75	15.2	76.0	1692	3	US-09-252-991A-9844	Sequence 9844, Ap
c 76	15.2	76.0	1695	3	US-09-232-878-1	Sequence 1, Appli
c 77	15.2	76.0	1956	3	US-09-620-312D-68	Sequence 68, Appl
c 78	15.2	76.0	1956	3	US-10-258-842-20	Sequence 20, Appl
c 79	15.2	76.0	1986	3	US-10-258-842-14	Sequence 14, Appl
c 80	15.2	76.0	1986	3	US-10-258-842-18	Sequence 18, Appl
c 81	15.2	76.0	1986	3	US-10-258-842-24	Sequence 24, Appl
c 82	15.2	76.0	2167	3	US-09-949-016-1034	Sequence 1034, Ap
c 83	15.2	76.0	3626	3	US-09-900-237-29	Sequence 29, Appl
c 84	15.2	76.0	4338	3	US-09-360-237-4	Sequence 4, Appli
c 85	15.2	76.0	4338	3	US-09-891-711-3	Sequence 3, Appli
c 86	15.2	76.0	4338	3	US-09-949-016-542	Sequence 542, App
c 87	15.2	76.0	4338	3	US-09-949-016-4816	Sequence 4816, Ap
c 88	15.2	76.0	6112	3	US-09-949-016-4198	Sequence 4198, Ap
c 89	15.2	76.0	29231	3	US-09-949-016-16263	Sequence 16263, A
c 90	15.2	76.0	67156	3	US-09-949-016-12284	Sequence 12284, A
c 91	15.2	76.0	67157	3	US-09-949-016-16558	Sequence 16558, A
c 92	15.2	76.0	154023	3	US-09-949-016-17057	Sequence 17057, A
c 93	15	75.0	536165	3	US-09-214-808-1	Sequence 1, Appli
c 94	14.8	74.0	98	3	US-09-270-767-2221	Sequence 2221, Ap
c 95	14.8	74.0	98	3	US-09-270-767-17503	Sequence 17503, A
c 96	14.8	74.0	468	3	US-09-252-991A-11339	Sequence 11339, A
c 97	14.8	74.0	516	3	US-09-252-991A-11358	Sequence 11358, A

C 98	14.8	74.0	601	3	US-09-949-016-56035	Sequence 56035, A	C 171	14.2	71.0	558	3	US-09-252-991A-9008	Sequence 9008, Ap
C 99	14.8	74.0	601	3	US-09-949-016-56036	Sequence 56036, A	C 172	14.2	71.0	598	3	US-09-270-767-2598	Sequence 2598, Ap
C 100	14.8	74.0	601	3	US-09-949-016-56053	Sequence 56053, A	C 173	14.2	71.0	598	3	US-09-270-767-17880	Sequence 17880, A
C 101	14.8	74.0	601	3	US-09-949-016-56054	Sequence 56054, A	C 174	14.2	71.0	601	3	US-09-949-016-22654	Sequence 22654, A
C 102	14.8	74.0	812	3	US-09-489-039A-3036	Sequence 3036, Ap	C 175	14.2	71.0	601	3	US-09-949-016-40523	Sequence 40523, A
C 103	14.8	74.0	822	3	US-09-902-540-4324	Sequence 4324, Ap	C 176	14.2	71.0	601	3	US-09-949-016-40524	Sequence 40524, A
C 104	14.8	74.0	846	3	US-09-134-000C-1624	Sequence 1624, Ap	C 177	14.2	71.0	601	3	US-09-949-016-63862	Sequence 63862, A
C 105	14.8	74.0	1107	3	US-09-252-991A-13336	Sequence 13336, A	C 178	14.2	71.0	601	3	US-09-949-016-63863	Sequence 63863, A
C 106	14.8	74.0	1179	3	US-09-252-991A-13193	Sequence 13193, A	C 179	14.2	71.0	601	3	US-09-949-016-63937	Sequence 63937, A
C 107	14.8	74.0	1305	3	US-09-489-039A-2169	Sequence 2169, Ap	C 180	14.2	71.0	601	3	US-09-949-016-63938	Sequence 63938, A
C 108	14.8	74.0	1308	3	US-09-252-991A-12614	Sequence 12614, A	C 181	14.2	71.0	601	3	US-09-949-016-90077	Sequence 90077, A
C 109	14.8	74.0	1320	3	US-09-902-540-2997	Sequence 2997, Ap	C 182	14.2	71.0	601	3	US-09-949-016-172738	Sequence 172738, A
C 110	14.8	74.0	1416	3	US-09-252-991A-2625	Sequence 2625, Ap	C 183	14.2	71.0	601	3	US-09-949-016-202121	Sequence 202121, A
C 111	14.8	74.0	1484	3	US-09-902-540-364	Sequence 364, App	C 184	14.2	71.0	601	3	US-09-949-002-1575	Sequence 1575, Ap
C 112	14.8	74.0	1584	3	US-09-252-991A-2288	Sequence 2288, Ap	C 185	14.2	71.0	601	3	US-09-949-002-7009	Sequence 7009, Ap
C 113	14.8	74.0	1681	3	US-09-634-238-51	Sequence 51, Appl	C 186	14.2	71.0	609	3	US-09-533-559-1231	Sequence 1231, Ap
C 114	14.8	74.0	1919	3	US-09-614-912-175	Sequence 175, App	C 187	14.2	71.0	672	3	US-09-902-540-5479	Sequence 5479, Ap
C 115	14.8	74.0	1994	3	US-09-398-395A-41	Sequence 41, Appl	C 188	14.2	71.0	693	3	US-09-252-991A-5636	Sequence 5636, Ap
C 116	14.8	74.0	1994	3	US-09-887-586A-41	Sequence 41, Appl	C 189	14.2	71.0	825	3	US-09-252-991A-5595	Sequence 5595, Ap
C 117	14.8	74.0	1994	3	US-09-895-752-41	Sequence 41, Appl	C 190	14.2	71.0	843	3	US-09-489-039A-2990	Sequence 2990, Ap
C 118	14.8	74.0	1994	3	US-09-903-012B-41	Sequence 41, Appl	C 191	14.2	71.0	843	3	US-09-489-039A-5035	Sequence 5035, Ap
C 119	14.8	74.0	1994	3	US-09-900-797-41	Sequence 41, Appl	C 192	14.2	71.0	904	3	US-09-270-767-10344	Sequence 10344, A
C 120	14.8	74.0	1994	3	US-09-893-820-41	Sequence 41, Appl	C 193	14.2	71.0	981	3	US-09-252-991A-8899	Sequence 8899, Ap
C 121	14.8	74.0	2244	3	US-09-902-540-9009	Sequence 9009, Ap	C 194	14.2	71.0	999	3	US-09-252-991A-9087	Sequence 9087, Ap
C 122	14.8	74.0	3808	2	US-08-916-917-3	Sequence 3, Appl	C 195	14.2	71.0	1001	3	US-09-270-767-27766	Sequence 27766, A
C 123	14.8	74.0	3808	2	US-08-972-631-3	Sequence 3, Appl	C 196	14.2	71.0	1044	3	US-09-489-039A-6920	Sequence 6920, Ap
C 124	14.8	74.0	3808	2	US-08-972-632-3	Sequence 3, Appl	C 197	14.2	71.0	1056	3	US-09-489-039A-6920	Sequence 6920, Ap
C 125	14.8	74.0	3808	2	US-08-972-630-3	Sequence 3, Appl	C 198	14.2	71.0	1069	3	US-09-799-451-548	Sequence 548, App
C 126	14.8	74.0	3808	2	US-08-972-630-3	Sequence 3, Appl	C 199	14.2	71.0	1092	3	US-09-712-363-90	Sequence 90, Appl
C 127	14.8	74.0	3808	2	US-09-225-170-3	Sequence 3, Appl	C 200	14.2	71.0	1100	3	US-09-949-016-4538	Sequence 4538, Ap
C 128	14.8	74.0	3808	2	US-09-225-170-3	Sequence 3, Appl	C 201	14.2	71.0	1185	3	US-09-252-991A-9001	Sequence 9001, Ap
C 129	14.8	74.0	9123	3	US-09-949-016-14852	Sequence 26, Appl	C 202	14.2	71.0	1245	3	US-09-489-039A-3040	Sequence 3040, Ap
C 130	14.8	74.0	9176	3	US-09-949-016-17432	Sequence 17432, A	C 203	14.2	71.0	1260	3	US-09-252-991A-6317	Sequence 6317, Ap
C 131	14.8	74.0	12849	3	US-09-902-540-963	Sequence 963, App	C 204	14.2	71.0	1275	2	US-08-588-113-1	Sequence 1, Appl
C 132	14.8	74.0	21590	3	US-09-949-016-13372	Sequence 13372, A	C 205	14.2	71.0	1278	3	US-09-252-991A-15263	Sequence 15263, A
C 133	14.8	74.0	21590	3	US-09-949-016-13373	Sequence 13373, A	C 206	14.2	71.0	1288	3	US-09-949-016-229	Sequence 229, App
C 134	14.8	74.0	25733	3	US-09-902-540-1215	Sequence 1215, Ap	C 207	14.2	71.0	1288	3	US-09-949-016-4886	Sequence 4886, Ap
C 135	14.8	74.0	34125	3	US-09-782-378A-25	Sequence 25, Appl	C 208	14.2	71.0	1306	3	US-09-990-823-67	Sequence 67, Appl
C 136	14.8	74.0	43375	3	US-09-949-016-12688	Sequence 12688, A	C 209	14.2	71.0	1306	3	US-09-477-135A-67	Sequence 67, Appl
C 137	14.8	74.0	43376	3	US-09-949-016-15515	Sequence 15515, A	C 210	14.2	71.0	1312	2	US-08-205-506A-1	Sequence 1, Appl
C 138	14.8	74.0	158735	3	US-09-949-016-11989	Sequence 11989, A	C 211	14.2	71.0	1312	6	PCT-US94-02389-1	Sequence 1, Appl
C 139	14.8	74.0	158735	3	US-09-949-016-11989	Sequence 11989, A	C 212	14.2	71.0	1332	3	US-09-489-039A-3075	Sequence 3075, Ap
C 140	14.8	74.0	4403765	3	US-09-103-840A-2	Sequence 2, Appl	C 213	14.2	71.0	1359	3	US-09-252-991A-3294	Sequence 3294, Ap
C 141	14.8	74.0	4411529	3	US-09-103-840A-1	Sequence 1, Appl	C 214	14.2	71.0	1368	2	US-08-278-729A-24	Sequence 24, Appl
C 142	14.4	72.0	695	3	US-09-533-559-4967	Sequence 4967, Ap	C 215	14.2	71.0	1368	2	US-08-155-343A-24	Sequence 24, Appl
C 143	14.4	72.0	801	3	US-09-489-039A-3365	Sequence 3365, Ap	C 216	14.2	71.0	1368	2	US-08-406-672-24	Sequence 24, Appl
C 144	14.4	72.0	873	3	US-09-489-039A-3534	Sequence 3534, Ap	C 217	14.2	71.0	1368	2	US-08-643-563A-24	Sequence 24, Appl
C 145	14.4	72.0	1122	3	US-09-252-991A-2772	Sequence 2772, Ap	C 218	14.2	71.0	1368	2	US-08-643-563A-24	Sequence 24, Appl
C 146	14.4	72.0	1269	3	US-09-902-540-4090	Sequence 4090, Ap	C 219	14.2	71.0	1368	2	US-08-462-623-24	Sequence 24, Appl
C 147	14.4	72.0	1467	3	US-09-540-236-761	Sequence 761, App	C 220	14.2	71.0	1368	2	US-08-451-953A-24	Sequence 24, Appl
C 148	14.4	72.0	1983	3	US-09-489-039A-5295	Sequence 5295, Ap	C 221	14.2	71.0	1368	2	US-08-451-953A-24	Sequence 24, Appl
C 149	14.4	72.0	5455	2	US-08-342-930-1	Sequence 1, Appl	C 222	14.2	71.0	1368	2	US-08-461-397A-24	Sequence 24, Appl
C 150	14.4	72.0	93738	3	US-09-902-540-1203	Sequence 1203, Ap	C 223	14.2	71.0	1368	2	US-08-912-088-24	Sequence 24, Appl
C 151	14.4	72.0	24750	3	US-09-596-002-38	Sequence 38, Appl	C 224	14.2	71.0	1368	2	US-08-278-730A-24	Sequence 24, Appl
C 152	14.4	72.0	117001	3	US-09-949-016-15684	Sequence 15684, A	C 225	14.2	71.0	1368	3	US-08-445-467-24	Sequence 24, Appl
C 153	14.4	72.0	181251	3	US-09-949-016-15970	Sequence 15970, A	C 226	14.2	71.0	1368	3	US-08-440-515A-24	Sequence 24, Appl
C 154	14.4	72.0	4403765	3	US-09-103-840A-2	Sequence 2, Appl	C 227	14.2	71.0	1368	3	US-08-271-556A-1	Sequence 1, Appl
C 155	14.4	72.0	4411529	3	US-09-103-840A-1	Sequence 1, Appl	C 228	14.2	71.0	1368	3	US-09-170-336-24	Sequence 24, Appl
C 156	14.2	71.0	20	3	US-09-593-589-55	Sequence 55, Appl	C 229	14.2	71.0	1368	3	US-08-461-113-24	Sequence 24, Appl
C 157	14.2	71.0	25	3	US-09-396-196G-108059	Sequence 108059, A	C 230	14.2	71.0	1368	3	US-08-456-033-24	Sequence 24, Appl
C 158	14.2	71.0	52	3	US-09-911-909B-7	Sequence 7, Appl	C 231	14.2	71.0	1368	3	US-08-643-321-24	Sequence 23, Appl
C 159	14.2	71.0	161	3	US-09-313-294A-2955	Sequence 2955, Ap	C 232	14.2	71.0	1368	3	US-08-260-675-24	Sequence 24, Appl
C 160	14.2	71.0	219	3	US-09-489-039A-7065	Sequence 7065, Ap	C 233	14.2	71.0	1368	3	US-08-292-782-24	Sequence 24, Appl
C 161	14.2	71.0	281	3	US-09-313-294A-3174	Sequence 3174, Ap	C 234	14.2	71.0	1368	6	PCT-US93-07190-24	Sequence 24, Appl
C 162	14.2	71.0	399	3	US-09-252-991A-13881	Sequence 13881, A	C 235	14.2	71.0	1368	6	PCT-US93-07231-24	Sequence 24, Appl
C 163	14.2	71.0	455	3	US-09-270-767-341	Sequence 341, App	C 236	14.2	71.0	1368	6	PCT-US93-08742-24	Sequence 24, Appl
C 164	14.2	71.0	455	3	US-09-270-767-15623	Sequence 15623, A	C 237	14.2	71.0	1368	6	PCT-US93-08808-24	Sequence 24, Appl
C 165	14.2	71.0	465	3	US-09-252-991A-10797	Sequence 10797, A	C 238	14.2	71.0	1368	6	PCT-US93-08885-24	Sequence 24, Appl
C 166	14.2	71.0	480	3	US-09-252-991A-15417	Sequence 15417, A	C 239	14.2	71.0	1377	3	US-09-252-991A-3340	Sequence 3340, Ap
C 167	14.2	71.0	510	3	US-09-270-767-786	Sequence 786, App	C 240	14.2	71.0	1393	3	US-09-919-172-32	Sequence 32, Appl
C 168	14.2	71.0	510	3	US-09-270-767-16068	Sequence 16068, A	C 241	14.2	71.0	1413	3	US-09-949-016-2580	Sequence 2580, Ap
C 169	14.2	71.0	544	3	US-09-247-155-60	Sequence 60, Appl	C 242	14.2	71.0	1452	3	US-09-107-532A-1198	Sequence 1198, Ap
C 170	14.2	71.0	544	3	US-09-903-190-60	Sequence 60, Appl	C 243	14.2	71.0	1503	3	US-09-252-991A-13684	Sequence 13684, A

C 244	14.2	71.0	1512	3	US-09-252-991A-15311	Sequence 15311, A	317	14.2	71.0	22712	3	US-09-949-016-16760	Sequence 16760, A
C 245	14.2	71.0	1520	3	US-09-620-312D-458	Sequence 458, App	318	14.2	71.0	22712	3	US-09-949-016-16761	Sequence 16761, A
C 246	14.2	71.0	1693	2	US-08-487-113D-118	Sequence 118, App	319	14.2	71.0	22712	3	US-09-949-016-16762	Sequence 16762, A
C 247	14.2	71.0	1693	3	US-08-720-420A-118	Sequence 118, App	320	14.2	71.0	25227	3	US-09-949-016-11847	Sequence 11847, A
C 248	14.2	71.0	1693	3	US-09-253-991A-10715	Sequence 10715, A	321	14.2	71.0	25227	3	US-09-949-016-11847	Sequence 11847, A
C 249	14.2	71.0	1698	3	US-09-252-991A-10451	Sequence 10451, A	C 322	14.2	71.0	30973	3	US-09-949-016-11863	Sequence 11863, A
C 250	14.2	71.0	1710	3	US-09-252-991A-3383	Sequence 3383, App	C 323	14.2	71.0	30973	3	US-09-949-016-11971	Sequence 11971, A
C 251	14.2	71.0	1746	3	US-09-252-991A-13461	Sequence 13461, A	C 324	14.2	71.0	30976	3	US-09-949-016-16628	Sequence 16628, A
C 252	14.2	71.0	1749	3	US-09-516-914-22	Sequence 22, App	C 325	14.2	71.0	35676	3	US-09-949-016-13199	Sequence 13199, A
C 253	14.2	71.0	1872	3	US-08-743-637B-17	Sequence 17, App	C 326	14.2	71.0	37531	3	US-09-949-002-602	Sequence 602, App
C 254	14.2	71.0	1872	3	US-08-526-840B-17	Sequence 17, App	C 327	14.2	71.0	37531	3	US-09-949-002-602	Sequence 602, App
C 255	14.2	71.0	1900	3	US-09-949-016-1457	Sequence 1457, App	C 328	14.2	71.0	41454	3	US-09-949-016-17107	Sequence 17107, A
C 256	14.2	71.0	2038	3	US-09-323-872A-45	Sequence 45, App	C 329	14.2	71.0	46343	3	US-09-949-016-16824	Sequence 16824, A
C 257	14.2	71.0	2058	3	US-09-881-239-2	Sequence 2, App	C 330	14.2	71.0	49144	3	US-09-949-016-15343	Sequence 15343, A
C 258	14.2	71.0	2058	3	US-09-881-654-1	Sequence 1, App	C 331	14.2	71.0	69062	3	US-09-949-016-13608	Sequence 13608, A
C 259	14.2	71.0	2058	3	US-10-637-323-1	Sequence 3, App	C 332	14.2	71.0	69062	3	US-09-949-016-13608	Sequence 13608, A
C 260	14.2	71.0	2097	2	US-08-655-345-3	Sequence 3, App	C 333	14.2	71.0	69687	3	US-09-949-016-12890	Sequence 12890, A
C 261	14.2	71.0	2097	3	US-09-183-275-3	Sequence 3, App	C 334	14.2	71.0	85869	3	US-09-949-016-12017	Sequence 12017, A
C 262	14.2	71.0	2097	3	US-09-727-169-3	Sequence 3, App	C 335	14.2	71.0	85878	3	US-09-949-016-16321	Sequence 16321, A
C 263	14.2	71.0	2097	3	US-09-579-766A-3	Sequence 3, App	C 336	14.2	71.0	87629	3	US-09-949-016-15262	Sequence 15262, A
C 264	14.2	71.0	2097	3	US-09-726-968-3	Sequence 3, App	C 337	14.2	71.0	87629	3	US-09-949-016-15263	Sequence 15263, A
C 265	14.2	71.0	2097	6	PCT-US96-08407-3	Sequence 3, App	C 338	14.2	71.0	87629	3	US-09-949-016-15264	Sequence 15264, A
C 266	14.2	71.0	2127	3	US-09-489-039A-2960	Sequence 2960, App	C 339	14.2	71.0	90541	3	US-09-949-016-15265	Sequence 15265, A
C 267	14.2	71.0	2193	3	US-09-362-842-3	Sequence 3, App	C 340	14.2	71.0	90541	3	US-09-759-359A-3	Sequence 3, Appli
C 268	14.2	71.0	2460	3	US-09-270-767-12063	Sequence 12063, A	C 341	14.2	71.0	90541	3	US-10-207-373-3	Sequence 3, Appli
C 269	14.2	71.0	2475	2	US-08-655-345-1	Sequence 1, App	C 342	14.2	71.0	99580	3	US-09-949-016-17411	Sequence 17411, A
C 270	14.2	71.0	2475	3	US-09-183-275-1	Sequence 1, App	C 343	14.2	71.0	107941	3	US-09-949-016-14206	Sequence 14206, A
C 271	14.2	71.0	2475	3	US-09-727-169-1	Sequence 1, App	C 344	14.2	71.0	109378	3	US-09-949-016-12391	Sequence 12391, A
C 272	14.2	71.0	2475	3	US-09-579-766A-1	Sequence 1, App	C 345	14.2	71.0	156651	3	US-09-949-016-17349	Sequence 17349, A
C 273	14.2	71.0	2475	3	US-09-726-968-1	Sequence 1, App	C 346	14.2	71.0	235064	3	US-09-949-016-15390	Sequence 15390, A
C 274	14.2	71.0	2475	6	PCT-US96-08407-1	Sequence 1, App	C 347	14.2	71.0	601	3	US-09-949-016-139479	Sequence 139479, A
C 275	14.2	71.0	2517	3	US-08-733-360A-4	Sequence 4, App	C 348	14.2	71.0	701	3	US-09-533-559-6311	Sequence 6311, Ap
C 276	14.2	71.0	2517	3	US-08-987-743-16	Sequence 16, App	C 349	14.2	71.0	2054	3	US-09-252-991A-14120	Sequence 14120, A
C 277	14.2	71.0	2517	3	US-08-916-935-4	Sequence 4, App	C 350	14.2	71.0	2829	3	US-09-809-665A-108	Sequence 108, App
C 278	14.2	71.0	2532	2	US-07-671-376C-4	Sequence 4, App	C 351	14.2	71.0	4287	3	US-09-252-991A-14110	Sequence 14110, A
C 279	14.2	71.0	2697	3	US-09-489-039A-3151	Sequence 3151, App	C 352	14.2	71.0	5798	3	US-09-593-386-1	Sequence 14160, A
C 280	14.2	71.0	2721	3	US-09-252-991A-14887	Sequence 14887, A	C 353	14.2	71.0	5798	3	US-09-993-525-1	Sequence 1, Appli
C 281	14.2	71.0	2781	3	US-09-774-528-198	Sequence 198, App	C 354	14.2	71.0	39195	3	US-08-311-731A-133	Sequence 133, App
C 282	14.2	71.0	2875	3	US-09-949-016-1866	Sequence 1866, App	C 355	14.2	71.0	86956	3	US-09-949-016-12394	Sequence 12394, A
C 283	14.2	71.0	2875	3	US-10-120-988-198	Sequence 1867, App	C 356	14.2	71.0	23471	3	US-09-949-016-12387	Sequence 12387, A
C 284	14.2	71.0	2888	3	US-09-949-016-1867	Sequence 1867, App	C 357	14.2	71.0	23471	3	US-09-949-016-12724	Sequence 12724, A
C 285	14.2	71.0	2888	3	US-09-429-093-1	Sequence 1, App	C 358	14.2	71.0	23471	3	US-09-949-016-12725	Sequence 12725, A
C 286	14.2	71.0	3014	3	US-09-429-093-1	Sequence 1, App	C 359	14.2	71.0	32000	3	US-10-027-983-11	Sequence 11, Appli
C 287	14.2	71.0	3014	3	US-09-593-589-10	Sequence 10, App	C 360	14.2	71.0	1830121	3	US-09-557-884-1	Sequence 1, Appli
C 288	14.2	71.0	3023	3	US-09-362-842-66	Sequence 66, App	C 361	14.2	71.0	1830121	3	US-09-643-990A-1	Sequence 1, Appli
C 289	14.2	71.0	3033	3	US-09-270-767-13872	Sequence 13872, A	C 362	14.2	71.0	1830121	3	US-10-158-865-1	Sequence 1, Appli
C 290	14.2	71.0	3033	3	US-09-171-337A-4	Sequence 4, App	C 363	13.8	69.0	171	3	US-09-270-767-25580	Sequence 25580, A
C 291	14.2	71.0	3240	3	US-09-631-022-4	Sequence 4, App	C 364	13.8	69.0	354	3	US-09-489-039A-2654	Sequence 2654, Ap
C 292	14.2	71.0	3240	3	US-08-650-766-3	Sequence 3, App	C 365	13.8	69.0	420	3	US-09-252-991A-10335	Sequence 10335, A
C 293	14.2	71.0	3318	3	US-08-922-635-3	Sequence 3, App	C 366	13.8	69.0	525	3	US-09-668-262A-9	Sequence 9, Appli
C 294	14.2	71.0	3318	3	US-09-593-589-3	Sequence 3, App	C 367	13.8	69.0	525	3	US-10-427-442-9	Sequence 9, Appli
C 295	14.2	71.0	3318	3	US-09-389-487-1	Sequence 1, App	C 368	13.8	69.0	601	3	US-09-949-016-21472	Sequence 21472, A
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## ALIGNMENTS

RESULT 1  
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; Sequence 1, Application US/08817090B  
; Patent No. 5885777  
; GENERAL INFORMATION:  
; APPLICANT: Stoyanov, Borislav  
; APPLICANT: Hancock, Theodor  
; APPLICANT: Wetzer, Reinhard  
; TITLE OF INVENTION: CLONING, EXPRESSION AND CHARACTERIZATION OF  
; TITLE OF INVENTION: A NEW FORM OF PHOSPHATIDYLINOSITOL-3-KINASE  
; NUMBER OF SEQUENCES: 7  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nikaido, Marmelstein, Murray & Oram LLP  
; STREET: 655 Fifteenth Street N.W. Suite 330  
; CITY: Washington  
; STATE: D.C.  
; COUNTRY: U.S.A.  
; ZIP: 20005-5701  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/817,090B  
; FILING DATE: 11-APR-1997  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: DE 44 36 696.5  
; FILING DATE: 13-OCT-1994

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#### SUMMARIES

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59	16.4	82.0	2693	7	US-10-374-366-157	Sequence 157, App
60	16.4	82.0	2693	7	US-10-374-366-160	Sequence 160, App
61	16.4	82.0	2693	7	US-10-374-366-163	Sequence 163, App
62	16.4	82.0	2693	7	US-10-374-366-166	Sequence 166, App
63	16.4	82.0	2693	7	US-10-374-366-169	Sequence 169, App
64	16.4	82.0	2693	7	US-10-374-366-172	Sequence 172, App
65	16.4	82.0	2693	7	US-10-374-366-175	Sequence 175, App
66	16.4	82.0	2693	7	US-10-374-366-178	Sequence 178, App
67	16.4	82.0	2693	7	US-10-374-366-181	Sequence 181, App
68	16.4	82.0	2693	7	US-10-374-366-184	Sequence 184, App
69	16.4	82.0	2693	7	US-10-374-366-187	Sequence 187, App
70	16.4	82.0	2693	7	US-10-374-366-190	Sequence 190, App
71	16.4	82.0	2693	7	US-10-374-366-193	Sequence 193, App
72	16.4	82.0	2693	7	US-10-374-366-196	Sequence 196, App
73	16.4	82.0	4084	5	US-10-087-192-1568	Sequence 1568, Ap
74	16.4	82.0	4084	5	US-10-087-192-1568	Sequence 1568, Ap
75	16.4	82.0	12145	3	US-09-308-207-19	Sequence 19, Appli
76	16.4	82.0	12145	5	US-10-213-203-1	Sequence 1, Appli
77	16.4	82.0	12145	6	US-10-277-249-1	Sequence 1, Appli
78	16.4	82.0	12145	8	US-10-374-366-32	Sequence 32, Appl
79	16.4	82.0	12145	8	US-10-739-542-48	Sequence 48, Appl
80	16.4	82.0	12145	9	US-10-420-587-48	Sequence 48, Appl
81	16.4	82.0	13402	7	US-10-680-286-68	Sequence 68, Appl
82	16.4	82.0	13402	8	US-10-739-542-74	Sequence 74, Appl
83	16.4	82.0	13402	9	US-10-420-587-74	Sequence 74, Appl
84	16.4	82.0	13470	8	US-10-739-542-30	Sequence 30, Appl
85	16.4	82.0	13470	9	US-10-420-587-30	Sequence 30, Appl
86	16.4	82.0	13543	6	US-10-127-862-1	Sequence 1, Appli
87	16.4	82.0	13543	7	US-10-680-286-66	Sequence 66, Appl
88	16.4	82.0	13543	7	US-10-680-286-67	Sequence 67, Appl
89	16.4	82.0	13543	8	US-10-739-542-72	Sequence 72, Appl
90	16.4	82.0	13543	8	US-10-739-542-73	Sequence 73, Appl
91	16.4	82.0	13543	9	US-10-420-587-72	Sequence 72, Appl
92	16.4	82.0	13543	9	US-10-420-587-73	Sequence 73, Appl
93	16.4	82.0	13543	9	US-10-860-221-1	Sequence 1, Appli
94	16.4	82.0	13611	8	US-10-739-542-78	Sequence 78, Appl
95	16.4	82.0	13611	9	US-10-420-587-78	Sequence 78, Appl
96	16.4	82.0	13669	7	US-10-680-286-65	Sequence 65, Appl

97	16.4	82.0	13669	8	US-10-739-542-71	Sequence 71, Appl	c 170	15.2	76.0	539	6	US-10-154-884B-4013	Sequence 4013, Ap
98	16.4	82.0	13669	9	US-10-728-337-4	Sequence 4, Appli	c 171	15.2	76.0	539	8	US-10-764-324-4013	Sequence 4013, Ap
99	16.4	82.0	13669	9	US-10-420-587-71	Sequence 71, Appl	c 172	15.2	76.0	547	6	US-10-029-386-5564	Sequence 5564, Ap
100	16.4	82.0	52211	5	US-10-087-192-1567	Sequence 1567, Ap	c 173	15.2	76.0	571	3	US-09-815-242-3751	Sequence 3751, Ap
101	15.8	79.0	256	3	US-09-923-876-376	Sequence 376, App	c 174	15.2	76.0	571	4	US-09-925-065A-561841	Sequence 561841,
102	15.8	79.0	256	3	US-09-923-876-376	Sequence 376, App	c 175	15.2	76.0	575	4	US-09-925-065A-561842	Sequence 561842,
103	15.8	79.0	267	7	US-10-437-963-28528	Sequence 28528, A	c 176	15.2	76.0	575	8	US-10-435-115-68662	Sequence 68662, A
104	15.8	79.0	350	8	US-10-425-115-120581	Sequence 120581,	c 177	15.2	76.0	600	9	US-10-972-079-94759	Sequence 94759, A
105	15.8	79.0	470	3	US-09-918-995-1931	Sequence 1931, Ap	c 178	15.2	76.0	605	4	US-09-925-065A-347714	Sequence 347714,
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107	15.8	79.0	600	9	US-10-972-079-91110	Sequence 91110, A	c 180	15.2	76.0	607	7	US-10-437-963-38095	Sequence 38095, A
108	15.8	79.0	617	7	US-10-437-963-35330	Sequence 35330, A	c 181	15.2	76.0	624	4	US-09-925-065A-572529	Sequence 572529,
109	15.8	79.0	647	10	US-11-097-143-20714	Sequence 20714, A	c 182	15.2	76.0	634	4	US-09-925-065A-727636	Sequence 727636,
110	15.8	79.0	770	7	US-10-437-963-26102	Sequence 26102, A	c 183	15.2	76.0	634	4	US-09-925-065A-727637	Sequence 727637,
111	15.8	79.0	856	5	US-10-027-632-8976	Sequence 8976, Ap	c 184	15.2	76.0	634	4	US-09-925-065A-943419	Sequence 943419,
112	15.8	79.0	856	6	US-10-027-632-8976	Sequence 8976, Ap	c 185	15.2	76.0	643	4	US-09-925-065A-852610	Sequence 852610,
113	15.8	79.0	878	7	US-10-437-963-59996	Sequence 59996, A	c 186	15.2	76.0	662	4	US-09-925-065A-876358	Sequence 876358,
114	15.8	79.0	1149	6	US-10-369-493-34195	Sequence 34195, A	c 187	15.2	76.0	686	8	US-10-653-047-5903	Sequence 5903, Ap
115	15.8	79.0	1383	7	US-10-282-122A-41321	Sequence 41321, A	c 188	15.2	76.0	797	8	US-10-425-115-181224	Sequence 181224,
116	15.8	79.0	1478	7	US-10-425-114-2446	Sequence 2446, Ap	c 189	15.2	76.0	841	4	US-09-925-065A-79918	Sequence 79918, A
117	15.8	79.0	1660	8	US-10-425-115-94167	Sequence 94167, Ap	c 190	15.2	76.0	878	5	US-10-027-632-173128	Sequence 173128,
118	15.8	79.0	2084	3	US-09-853-161-11	Sequence 11, Appl	c 191	15.2	76.0	936	6	US-10-027-632-173128	Sequence 173128,
119	15.8	79.0	2084	3	US-09-852-659A-11	Sequence 11, Appl	c 192	15.2	76.0	936	6	US-10-450-763-11451	Sequence 11451, A
120	15.8	79.0	2084	3	US-09-852-797-11	Sequence 11, Appl	c 193	15.2	76.0	936	9	US-10-450-763-14616	Sequence 14616, A
121	15.8	79.0	2084	6	US-10-058-993-11	Sequence 11, Appl	c 194	15.2	76.0	960	7	US-10-282-122A-32285	Sequence 32285, A
122	15.8	79.0	2084	9	US-10-951-993-11	Sequence 11, Appl	c 195	15.2	76.0	995	8	US-10-425-115-65253	Sequence 65253, A
123	15.8	79.0	2274	9	US-10-972-024-120	Sequence 120, Appl	c 196	15.2	76.0	1095	6	US-10-258-842-1	Sequence 1, Appli
124	15.8	79.0	2330	3	US-09-799-777-88	Sequence 88, Appl	c 197	15.2	76.0	1095	10	US-11-109-587-1	Sequence 1, Appli
125	15.8	79.0	2396	10	US-11-097-143-42973	Sequence 42973, A	c 198	15.2	76.0	1131	9	US-10-972-024-319	Sequence 319, App
126	15.8	79.0	2818	3	US-09-783-066-1	Sequence 1, Appli	c 199	15.2	76.0	1140	5	US-10-198-846-5512	Sequence 5512, Ap
127	15.8	79.0	2848	10	US-11-097-143-20713	Sequence 20713, A	c 200	15.2	76.0	1243	9	US-10-450-763-19993	Sequence 19993, A
128	15.8	79.0	5946	10	US-11-097-143-14917	Sequence 14917, A	c 201	15.2	76.0	1269	3	US-10-486-471-7	Sequence 7, Appli
129	15.8	79.0	6450	9	US-10-956-157-1964	Sequence 1964, Ap	c 202	15.2	76.0	1289	3	US-09-764-868-416	Sequence 416, App
130	15.8	79.0	6450	9	US-10-631-467-64	Sequence 64, Appl	c 203	15.2	76.0	1314	7	US-10-282-122A-39367	Sequence 39367, A
131	15.8	79.0	6796	10	US-11-097-143-23885	Sequence 23885, A	c 204	15.2	76.0	1317	7	US-10-276-774-986	Sequence 986, App
132	15.8	79.0	66681	7	US-10-322-281-411	Sequence 411, App	c 205	15.2	76.0	1327	7	US-10-437-963-100452	Sequence 100452,
133	15.8	79.0	89047	7	US-10-672-787-34	Sequence 34, Appl	c 206	15.2	76.0	1453	7	US-10-437-963-100452	Sequence 637, App
134	15.4	77.0	357	4	US-09-925-065A-599732	Sequence 599732,	c 207	15.2	76.0	1492	7	US-10-641-643-637	Sequence 19, Appl
135	15.4	77.0	570	4	US-09-925-065A-111866	Sequence 111866,	c 208	15.2	76.0	1607	3	US-09-764-413-19	Sequence 19, Appl
136	15.4	77.0	600	9	US-10-972-079-5346	Sequence 5346, Ap	c 209	15.2	76.0	1607	5	US-10-120-394-19	Sequence 19, Appl
137	15.4	77.0	612	7	US-10-282-122A-27837	Sequence 27837, A	c 210	15.2	76.0	1607	8	US-10-933-356-19	Sequence 19, Appl
138	15.4	77.0	647	7	US-10-437-963-74233	Sequence 74233, A	c 211	15.2	76.0	1662	5	US-10-098-841-32	Sequence 32, Appl
139	15.4	77.0	939	10	US-11-097-143-22514	Sequence 22514, A	c 212	15.2	76.0	1668	9	US-10-888-313A-61	Sequence 61, Appl
140	15.4	77.0	1043	4	US-09-925-065A-68125	Sequence 68125, A	c 213	15.2	76.0	1677	3	US-09-837-446-1	Sequence 1, Appli
141	15.4	77.0	1122	6	US-10-156-761-124	Sequence 124, App	c 214	15.2	76.0	1677	5	US-10-225-567A-65	Sequence 65, Appl
142	15.4	77.0	1368	7	US-10-282-122A-31915	Sequence 31915, A	c 215	15.2	76.0	1677	6	US-10-305-720-1117	Sequence 1117, Ap
143	15.4	77.0	1462	4	US-09-925-065A-718932	Sequence 718932,	c 216	15.2	76.0	1677	9	US-10-641-643-933	Sequence 933, App
144	15.4	77.0	1896	10	US-11-097-143-42056	Sequence 42056, A	c 217	15.2	76.0	1677	10	US-11-061-052-1	Sequence 1, Appli
145	15.4	77.0	3039	10	US-11-097-143-22513	Sequence 22513, A	c 218	15.2	76.0	1677	5	US-10-198-846-12847	Sequence 12847, A
146	15.4	77.0	3110	10	US-11-097-143-24880	Sequence 24880, A	c 219	15.2	76.0	1685	5	US-10-198-846-12847	Sequence 14869, A
147	15.4	77.0	3532	10	US-11-097-143-42061	Sequence 42061, A	c 220	15.2	76.0	1768	7	US-10-767-701-14669	Sequence 136, App
148	15.4	77.0	4042	10	US-11-097-143-42055	Sequence 42055, A	c 221	15.2	76.0	1791	6	US-10-315-515-138	Sequence 68, Appl
149	15.4	77.0	32147	5	US-10-094-679-1	Sequence 1, Appli	c 222	15.2	76.0	1875	8	US-10-037-270-68	Sequence 68, Appl
150	15.4	77.0	32147	5	US-10-477-536-6	Sequence 6, Appli	c 223	15.2	76.0	1875	5	US-10-117-722-68	Sequence 68, Appl
151	15.4	77.0	91749	5	US-10-087-192-550	Sequence 550, App	c 224	15.2	76.0	1956	6	US-10-122-851-68	Sequence 68, Appl
152	15.4	77.0	9035608	6	US-10-156-761-1	Sequence 1, Appli	c 225	15.2	76.0	1956	9	US-10-739-930-5002	Sequence 5002, Ap
153	15.2	76.0	104	9	US-10-467-851-995	Sequence 995, App	c 226	15.2	76.0	1983	8	US-10-258-842-20	Sequence 20, Appl
154	15.2	76.0	358	8	US-10-425-115-78162	Sequence 78162, A	c 227	15.2	76.0	1985	6	US-11-109-587-20	Sequence 20, Appl
155	15.2	76.0	363	8	US-10-425-115-77534	Sequence 77534, A	c 228	15.2	76.0	1985	10	US-11-109-587-20	Sequence 20, Appl
156	15.2	76.0	386	8	US-10-425-115-168847	Sequence 168847	c 229	15.2	76.0	1986	6	US-10-258-842-14	Sequence 14, Appl
157	15.2	76.0	390	7	US-10-437-963-4852	Sequence 4852, Ap	c 230	15.2	76.0	1986	6	US-10-258-842-18	Sequence 18, Appl
158	15.2	76.0	409	3	US-09-864-761-4153	Sequence 4153, Ap	c 231	15.2	76.0	1986	6	US-10-258-842-24	Sequence 24, Appl
159	15.2	76.0	421	3	US-09-960-352-4989	Sequence 4989, Ap	c 232	15.2	76.0	1986	10	US-11-109-587-14	Sequence 14, Appl
160	15.2	76.0	447	7	US-10-437-963-40704	Sequence 40704, A	c 233	15.2	76.0	1986	10	US-11-109-587-18	Sequence 18, Appl
161	15.2	76.0	476	3	US-09-918-995-2292	Sequence 2292, Ap	c 234	15.2	76.0	1986	10	US-11-109-587-24	Sequence 24, Appl
162	15.2	76.0	489	9	US-10-450-763-19365	Sequence 19365, A	c 235	15.2	76.0	2107	10	US-11-097-143-6941	Sequence 6941, Ap
163	15.2	76.0	514	3	US-09-764-413-5	Sequence 5, Appli	c 236	15.2	76.0	2493	5	US-10-273-680-3	Sequence 3, Appli
164	15.2	76.0	514	8	US-10-120-394-5	Sequence 5, Appli	c 237	15.2	76.0	2493	8	US-10-889-340-3	Sequence 3, Appli
165	15.2	76.0	514	8	US-10-933-356-5	Sequence 5, Appli	c 238	15.2	76.0	3016	3	US-09-814-353-19896	Sequence 19896, A
166	15.2	76.0	528	4	US-09-925-065A-151070	Sequence 151070,	c 239	15.2	76.0	3159	9	US-10-450-763-15418	Sequence 15418, A
167	15.2	76.0	539	3	US-09-796-692-4013	Sequence 4013, Ap	c 240	15.2	76.0	3293	6	US-10-094-749-961	Sequence 961, App
168	15.2	76.0	539	5	US-10-040-862-4013	Sequence 4013, Ap	c 241	15.2	76.0	3452	9	US-10-450-763-11560	Sequence 11560, A
169	15.2	76.0	539	6	US-10-057-475B-4013	Sequence 4013, Ap	c 242	15.2	76.0	3483	9	US-10-450-763-3751	Sequence 3751, Ap









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#### SUMMARIES

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9	17.4	87.0	3237	6	US-10-902-137-5
10	17.4	87.0	3342	6	US-10-902-137-3
11	17.4	87.0	3860	6	US-10-826-585-40
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13	15.4	77.0	1219	11	US-11-112-882-10
14	15.2	76.0	4338	11	US-11-122-329-113
15	15.2	76.0	50529	7	US-10-995-561-13472
16	15.2	76.0	64415	11	US-11-117-187-185
17	15.2	76.0	79122	11	US-11-117-187-200
18	14.8	74.0	64	7	US-10-310-914A-1456
19	14.8	74.0	1539	7	US-10-517-939-373
20	14.8	74.0	1565	7	US-10-750-185-38310
21	14.8	74.0	1565	7	US-10-750-623-38310

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14.8	74.0	2588	7	US-10-750-623-53837	Sequence 53837, A
14.8	74.0	34125	11	US-11-127-832-25	Sequence 25, Appl
14.8	74.0	100000	11	US-11-124-367A-5044	Sequence 5044, Ap
14.4	72.0	8231	11	US-11-136-527-1928	Sequence 1928, Ap
14.4	72.0	95050	7	US-10-857-780-7	Sequence 7, Appl
14.4	72.0	160226	11	US-11-121-086-29	Sequence 29, Appl
14.2	71.0	25	11	US-11-121-849-170908	Sequence 170908, A
14.2	71.0	25	11	US-11-121-849-260944	Sequence 260944, A
14.2	71.0	25	11	US-11-136-527-204863	Sequence 204863, A
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14.2	71.0	600	11	US-11-136-527-4319	Sequence 4319, Ap
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14.2	71.0	1099	7	US-10-750-185-30566	Sequence 30566, A
14.2	71.0	1099	7	US-10-750-623-30566	Sequence 30566, A
14.2	71.0	1213	7	US-10-750-185-33732	Sequence 33732, A
14.2	71.0	1213	7	US-10-750-623-33732	Sequence 33732, A
14.2	71.0	1243	7	US-10-750-185-48938	Sequence 48938, A
14.2	71.0	1243	7	US-10-750-623-48938	Sequence 48938, A
14.2	71.0	1368	11	US-11-226-555-24	Sequence 24, Appl
14.2	71.0	1471	7	US-10-750-185-43743	Sequence 43743, A
14.2	71.0	1471	7	US-10-750-623-43743	Sequence 43743, A
14.2	71.0	1494	7	US-10-750-185-60029	Sequence 60029, A
14.2	71.0	1494	7	US-10-750-623-60029	Sequence 60029, A
14.2	71.0	2040	11	US-11-111-288-1	Sequence 1, Appl
14.2	71.0	2296	7	US-10-750-185-42715	Sequence 42715, A
14.2	71.0	2296	7	US-10-750-623-42715	Sequence 42715, A
14.2	71.0	2351	11	US-11-136-527-3374	Sequence 3374, Ap
14.2	71.0	2439	7	US-10-750-185-43366	Sequence 43366, A
14.2	71.0	2439	7	US-10-750-623-43366	Sequence 43366, A
14.2	71.0	2560	11	US-11-111-288-2	Sequence 2, Appl
14.2	71.0	2792	7	US-10-821-234-79	Sequence 79, Appl
14.2	71.0	3684	7	US-10-750-185-38557	Sequence 38557, A
14.2	71.0	3684	7	US-10-750-623-38557	Sequence 38557, A
14.2	71.0	4084	7	US-10-750-185-51348	Sequence 51348, A
14.2	71.0	4084	7	US-10-750-623-51348	Sequence 51348, A
14.2	71.0	4128	11	US-11-136-527-2559	Sequence 2559, Ap
14.2	71.0	5285	11	US-11-136-527-3273	Sequence 3273, Ap
14.2	71.0	8753	6	US-10-724-598-2	Sequence 2, Appl
14.2	71.0	100000	11	US-11-124-368A-2913	Sequence 2913, Ap
14.2	71.0	125237	11	US-11-121-086-59	Sequence 59, Appl
14.2	71.0	163162	11	US-11-121-086-66	Sequence 66, Appl
14.2	71.0	166639	11	US-11-121-086-52	Sequence 52, Appl
14.2	71.0	220895	7	US-10-775-169-88	Sequence 88, Appl
14.2	71.0	317876	7	US-10-995-561-13227	Sequence 13227, A
14.2	71.0	1082144	11	US-11-117-187-211	Sequence 211, Appl
14.2	71.0	1891140	11	US-11-091-084-1	Sequence 1, Appl
14.2	71.0	69.0	19	US-10-310-914A-133831	Sequence 133831, A
14.2	71.0	69.0	19	US-11-101-244-378778	Sequence 378778, A
14.2	71.0	69.0	19	US-11-083-784-378778	Sequence 378778, A
14.2	71.0	69.0	21	US-10-310-914A-945578	Sequence 945578, A
14.2	71.0	69.0	24	US-10-310-914A-22057	Sequence 22057, A
14.2	71.0	69.0	25	US-11-136-527-204872	Sequence 204872, A
14.2	71.0	69.0	222	US-10-467-657-3363	Sequence 3363, Ap
14.2	71.0	69.0	396	US-10-769-744-438	Sequence 438, App
14.2	71.0	69.0	396	US-11-096-191-546	Sequence 546, App

c 95	13.8	69.0	667	7	US-10-750-185-44171	Sequence 44171, A	c 168	13.6	68.0	609	7	US-10-750-185-36153	Sequence 26153, A
c 96	13.8	69.0	667	7	US-10-750-623-44171	Sequence 44171, A	c 169	13.6	68.0	609	7	US-10-750-623-26153	Sequence 26153, A
c 97	13.8	69.0	771	7	US-10-467-657-719	Sequence 719, App	c 170	13.6	68.0	725	11	US-11-136-527-1612	Sequence 1612, Ap
c 98	13.8	69.0	1116	7	US-10-467-657-751	Sequence 751, App	c 171	13.6	68.0	735	7	US-10-467-657-1569	Sequence 1569, Ap
c 99	13.8	69.0	1287	11	US-11-055-822-317	Sequence 317, App	c 172	13.6	68.0	790	7	US-10-750-185-47689	Sequence 47689, A
c 100	13.8	69.0	1290	7	US-10-858-730-150	Sequence 150, App	c 173	13.6	68.0	790	7	US-10-750-623-47689	Sequence 47689, A
c 101	13.8	69.0	1400	11	US-11-136-537-7155	Sequence 7155, Ap	c 174	13.6	68.0	807	10	US-11-082-389-23	Sequence 23, Appl
c 102	13.8	69.0	1552	11	US-11-136-527-2107	Sequence 2107, Ap	c 175	13.6	68.0	831	7	US-10-467-657-2885	Sequence 2885, Appl
c 103	13.8	69.0	1639	7	US-10-750-185-45432	Sequence 45432, A	c 176	13.6	68.0	1059	7	US-10-750-185-44977	Sequence 44977, A
c 104	13.8	69.0	1639	7	US-10-750-623-45432	Sequence 45432, A	c 177	13.6	68.0	1059	7	US-10-750-623-44977	Sequence 44977, A
c 105	13.8	69.0	1704	7	US-10-750-185-32057	Sequence 32057, A	c 178	13.6	68.0	1149	7	US-10-750-185-59024	Sequence 59024, A
c 106	13.8	69.0	1704	7	US-10-750-623-32057	Sequence 32057, A	c 179	13.6	68.0	1149	7	US-10-750-623-59024	Sequence 59024, A
c 107	13.8	69.0	1821	7	US-10-750-185-60652	Sequence 60652, A	c 180	13.6	68.0	1239	7	US-10-750-185-59593	Sequence 59593, A
c 108	13.8	69.0	1821	7	US-10-750-623-60652	Sequence 60652, A	c 181	13.6	68.0	1239	7	US-10-750-623-59593	Sequence 59593, A
c 109	13.8	69.0	1874	11	US-11-136-527-3059	Sequence 3059, Ap	c 182	13.6	68.0	1248	7	US-10-750-185-34348	Sequence 34348, A
c 110	13.8	69.0	2489	7	US-10-750-185-61906	Sequence 61906, A	c 183	13.6	68.0	1248	7	US-10-750-623-34348	Sequence 34348, A
c 111	13.8	69.0	2489	7	US-10-750-623-61906	Sequence 61906, A	c 184	13.6	68.0	1345	7	US-10-750-185-58612	Sequence 58612, A
c 112	13.8	69.0	5931	11	US-11-000-688-928	Sequence 928, App	c 185	13.6	68.0	1345	7	US-10-750-623-58612	Sequence 58612, A
c 113	13.8	69.0	6021	11	US-11-136-527-274	Sequence 274, App	c 186	13.6	68.0	1347	11	US-11-052-554A-449	Sequence 449, App
c 114	13.8	69.0	33014	11	US-11-077-716-1	Sequence 1, Appli	c 187	13.6	68.0	1367	7	US-10-750-185-60266	Sequence 60266, A
c 115	13.8	69.0	33019	7	US-10-995-561-13371	Sequence 13371, A	c 188	13.6	68.0	1367	7	US-10-750-623-60266	Sequence 60266, A
c 116	13.8	69.0	33992	8	US-11-249-873-1	Sequence 1, Appli	c 189	13.6	68.0	1367	7	US-10-509-121-35	Sequence 35, Appl
c 117	13.8	69.0	33992	8	US-11-249-873-3	Sequence 3, Appli	c 190	13.6	68.0	1508	7	US-10-750-185-44350	Sequence 44350, A
c 118	13.8	69.0	33988	8	US-11-249-873-14	Sequence 14, Appli	c 191	13.6	68.0	1508	7	US-10-750-623-44350	Sequence 44350, A
c 119	13.8	69.0	34341	8	US-11-249-873-2	Sequence 2, Appli	c 192	13.6	68.0	1755	7	US-10-467-657-3159	Sequence 3159, Ap
c 120	13.8	69.0	34448	8	US-11-249-873-4	Sequence 4, Appli	c 193	13.6	68.0	1906	7	US-10-750-185-30542	Sequence 30542, A
c 121	13.8	69.0	34555	8	US-10-623-155-479	Sequence 479, App	c 194	13.6	68.0	1906	7	US-10-750-623-30542	Sequence 30542, A
c 122	13.8	69.0	34737	8	US-11-249-873-15	Sequence 15, Appli	c 195	13.6	68.0	1973	8	US-11-245-147-107	Sequence 107, App
c 123	13.8	69.0	35696	7	US-10-860-436-1	Sequence 1, Appli	c 196	13.6	68.0	1973	8	US-11-245-147-242	Sequence 242, App
c 124	13.8	69.0	35696	7	US-11-249-873-13	Sequence 13, Appli	c 197	13.6	68.0	2052	7	US-10-821-234-462	Sequence 462, App
c 125	13.8	69.0	35993	7	US-10-860-436-2	Sequence 2, Appli	c 198	13.6	68.0	2279	7	US-10-509-121-37	Sequence 37, Appl
c 126	13.8	69.0	35935	11	US-11-127-832-4	Sequence 4, Appli	c 199	13.6	68.0	2294	7	US-10-509-121-5	Sequence 5, Appli
c 127	13.8	69.0	35935	11	US-11-127-832-5	Sequence 5, Appli	c 200	13.6	68.0	2294	7	US-10-509-121-7	Sequence 7, Appli
c 128	13.8	69.0	36114	8	US-11-249-873-16	Sequence 16, Appli	c 201	13.6	68.0	2300	7	US-10-509-121-3	Sequence 3, Appli
c 129	13.8	69.0	100000	11	US-11-124-367A-5036	Sequence 5036, Ap	c 202	13.6	68.0	2301	7	US-10-509-121-1	Sequence 1, Appli
c 130	13.8	69.0	104299	11	US-11-000-688-1364	Sequence 1364, Ap	c 203	13.6	68.0	2301	7	US-10-509-121-38	Sequence 38, Appl
c 131	13.8	69.0	177175	11	US-11-121-086-79	Sequence 79, Appl	c 204	13.6	68.0	2389	11	US-11-000-688-8	Sequence 8, Appli
c 132	13.8	69.0	189993	11	US-11-121-086-78	Sequence 78, Appl	c 205	13.6	68.0	2691	11	US-11-081-566-1	Sequence 1, Appli
c 133	13.6	68.0	25	11	US-11-121-849-38862	Sequence 38862, A	c 206	13.6	68.0	2691	11	US-11-108-172-121	Sequence 121, App
c 134	13.6	68.0	25	11	US-11-121-849-390684	Sequence 390684, A	c 207	13.6	68.0	2691	11	US-11-186-284-200	Sequence 200, App
c 135	13.6	68.0	25	11	US-11-121-849-493419	Sequence 493419, A	c 208	13.6	68.0	2795	11	US-11-226-701-10	Sequence 10, Appl
c 136	13.6	68.0	201	7	US-10-995-561-50177	Sequence 50177, A	c 209	13.6	68.0	2971	11	US-11-000-688-268	Sequence 268, App
c 137	13.6	68.0	201	7	US-10-995-561-55247	Sequence 55247, A	c 210	13.6	68.0	3273	11	US-11-113-751-37	Sequence 37, Appl
c 138	13.6	68.0	201	7	US-10-995-561-64777	Sequence 64777, A	c 211	13.6	68.0	3279	11	US-11-113-751-39	Sequence 39, Appl
c 139	13.6	68.0	201	7	US-10-995-561-71062	Sequence 71062, A	c 212	13.6	68.0	3348	11	US-11-113-751-31	Sequence 31, Appl
c 140	13.6	68.0	201	7	US-10-995-561-83595	Sequence 83595, A	c 213	13.6	68.0	3348	11	US-11-113-751-33	Sequence 33, Appl
c 141	13.6	68.0	337	7	US-10-453-372-479	Sequence 479, App	c 214	13.6	68.0	3354	11	US-11-113-751-41	Sequence 41, Appl
c 142	13.6	68.0	343	7	US-10-453-372-481	Sequence 481, App	c 215	13.6	68.0	3363	11	US-11-113-751-18	Sequence 18, Appl
c 143	13.6	68.0	344	7	US-10-453-372-483	Sequence 483, App	c 216	13.6	68.0	3363	11	US-11-113-751-30	Sequence 30, Appl
c 144	13.6	68.0	344	7	US-10-453-372-487	Sequence 487, App	c 217	13.6	68.0	3434	11	US-11-113-751-17	Sequence 17, Appl
c 145	13.6	68.0	396	7	US-10-769-744-488	Sequence 488, App	c 218	13.6	68.0	3453	11	US-11-113-751-35	Sequence 35, Appl
c 146	13.6	68.0	396	7	US-10-769-744-489	Sequence 489, App	c 219	13.6	68.0	3459	11	US-11-113-751-43	Sequence 43, Appl
c 147	13.6	68.0	396	11	US-11-096-191-596	Sequence 596, App	c 220	13.6	68.0	3633	7	US-10-821-234-543	Sequence 543, App
c 148	13.6	68.0	396	11	US-11-096-191-597	Sequence 597, App	c 221	13.6	68.0	3802	7	US-10-775-169-186	Sequence 186, App
c 149	13.6	68.0	455	7	US-10-986-501-80	Sequence 80, Appl	c 222	13.6	68.0	4082	7	US-10-750-185-30891	Sequence 30891, A
c 150	13.6	68.0	473	11	US-11-108-172-10	Sequence 10, Appl	c 223	13.6	68.0	4082	7	US-10-750-623-30891	Sequence 30891, A
c 151	13.6	68.0	475	7	US-10-453-372-485	Sequence 485, App	c 224	13.6	68.0	4216	11	US-11-136-527-605	Sequence 605, App
c 152	13.6	68.0	500	11	US-11-128-061-2294	Sequence 2294, Ap	c 225	13.6	68.0	6435	11	US-11-134-795-7	Sequence 7, Appli
c 153	13.6	68.0	500	11	US-11-128-061-5936	Sequence 5936, Ap	c 226	13.6	68.0	9430	11	US-11-137-315A-39	Sequence 39, Appl
c 154	13.6	68.0	500	11	US-11-128-049-2294	Sequence 2294, Ap	c 227	13.6	68.0	9430	11	US-11-180-074-34	Sequence 34, Appl
c 155	13.6	68.0	500	11	US-11-128-049-5936	Sequence 5936, Ap	c 228	13.6	68.0	12604	11	US-11-137-315A-44	Sequence 44, Appl
c 156	13.6	68.0	535	11	US-11-128-061-2771	Sequence 2771, Ap	c 229	13.6	68.0	12604	11	US-11-180-074-39	Sequence 39, Appl
c 157	13.6	68.0	535	11	US-11-128-061-6413	Sequence 6413, Ap	c 230	13.6	68.0	14561	11	US-11-137-315A-47	Sequence 47, Appl
c 158	13.6	68.0	535	11	US-11-128-049-2771	Sequence 2771, Ap	c 231	13.6	68.0	14561	11	US-11-180-074-42	Sequence 42, Appl
c 159	13.6	68.0	535	11	US-11-128-049-6413	Sequence 6413, Ap	c 232	13.6	68.0	14567	11	US-11-137-315A-50	Sequence 50, Appl
c 160	13.6	68.0	578	11	US-11-128-061-1669	Sequence 1669, Ap	c 233	13.6	68.0	14567	11	US-11-180-074-45	Sequence 45, Appl
c 161	13.6	68.0	578	11	US-11-128-061-5311	Sequence 5311, Ap	c 234	13.6	68.0	46089	7	US-10-995-561-13325	Sequence 13325, A
c 162	13.6	68.0	578	11	US-11-128-049-1669	Sequence 1669, Ap	c 235	13.6	68.0	59590	11	US-11-117-187-187	Sequence 187, App
c 163	13.6	68.0	578	11	US-11-128-049-5311	Sequence 5311, Ap	c 236	13.6	68.0	96256	7	US-10-775-169-352	Sequence 352, App
c 164	13.6	68.0	600	7	US-10-467-657-2881	Sequence 2881, Ap	c 237	13.6	68.0	172543	11	US-11-121-086-6	Sequence 6, Appli
c 165	13.6	68.0	600	7	US-10-750-185-2487	Sequence 2487, Ap	c 238	13.6	68.0	193363	11	US-11-112-908-32	Sequence 32, Appl
c 166	13.6	68.0	600	7	US-10-750-623-2487	Sequence 2487, Ap	c 239	13.6	68.0	201990	7	US-10-995-561-13303	Sequence 13303, A
c 167	13.6	68.0	600	11	US-11-136-527-5708	Sequence 5708, Ap	c 240	13.6	68.0	214000	7	US-10-769-744-1	Sequence 1, Appli

241	13.6	68.0	214000	11	US-11-096-191-1	Sequence 1, Appli	c 314	13.2	66.0	360	7	US-10-802-796-455	Sequence 455, App
242	13.6	68.0	246960	11	US-11-121-086-8	Sequence 8, Appli	c 315	13.2	66.0	447	7	US-10-802-796-70	Sequence 70, Appli
243	13.6	68.0	403278	7	US-10-995-561-13421	Sequence 13421, A	c 316	13.2	66.0	521	7	US-10-750-185-4188	Sequence 4188, Ap
244	13.6	68.0	415117	9	US-10-995-561-13274	Sequence 13274, A	c 317	13.2	66.0	521	7	US-10-750-623-4188	Sequence 4188, Ap
245	13.4	67.0	19	9	US-11-101-244-686467	Sequence 686467, A	c 318	13.2	66.0	535	11	US-11-128-061-2771	Sequence 2771, Ap
246	13.4	67.0	19	9	US-11-101-244-887504	Sequence 887504, A	c 319	13.2	66.0	535	11	US-11-128-061-6413	Sequence 6413, Ap
247	13.4	67.0	19	9	US-11-083-784-686467	Sequence 686467, A	c 320	13.2	66.0	535	11	US-11-128-049-2771	Sequence 2771, Ap
248	13.4	67.0	19	10	US-11-083-784-887504	Sequence 887504, A	c 321	13.2	66.0	535	11	US-11-128-049-6413	Sequence 6413, Ap
249	13.4	67.0	20	7	US-10-310-914A-1012800	Sequence 1012800, A	c 322	13.2	66.0	580	11	US-11-128-061-1205	Sequence 1205, Ap
250	13.4	67.0	50	11	US-11-175-859-158	Sequence 158, App	c 323	13.2	66.0	580	11	US-11-128-061-4847	Sequence 4847, Ap
251	13.4	67.0	197	8	US-11-021-492-257	Sequence 257, App	c 324	13.2	66.0	580	11	US-11-128-049-1205	Sequence 1205, Ap
252	13.4	67.0	201	7	US-10-995-561-15088	Sequence 15088, A	c 325	13.2	66.0	580	11	US-11-128-049-4847	Sequence 4847, Ap
253	13.4	67.0	600	7	US-10-750-185-4067	Sequence 4067, Ap	c 326	13.2	66.0	581	11	US-11-128-061-187	Sequence 187, App
254	13.4	67.0	600	11	US-10-750-623-4067	Sequence 4067, Ap	c 327	13.2	66.0	581	11	US-11-128-061-3829	Sequence 3829, Ap
255	13.4	67.0	600	11	US-11-136-527-7380	Sequence 7380, Ap	c 328	13.2	66.0	581	11	US-11-128-049-187	Sequence 187, App
256	13.4	67.0	819	7	US-10-858-730-269	Sequence 269, App	c 329	13.2	66.0	581	11	US-11-128-049-3829	Sequence 3829, Ap
257	13.4	67.0	1026	11	US-11-136-527-3284	Sequence 3284, Ap	c 330	13.2	66.0	645	7	US-10-821-234-727	Sequence 727, App
258	13.4	67.0	1059	11	US-11-055-822-33	Sequence 33, Appli	c 331	13.2	66.0	681	11	US-11-120-308-91	Sequence 91, Appli
259	13.4	67.0	1557	7	US-10-750-185-62451	Sequence 62451, A	c 332	13.2	66.0	704	11	US-11-136-527-3966	Sequence 3966, Ap
260	13.4	67.0	1557	7	US-10-750-623-62451	Sequence 62451, A	c 333	13.2	66.0	704	11	US-11-136-527-3966	Sequence 3966, Ap
261	13.4	67.0	1630	7	US-10-750-185-56218	Sequence 56218, A	c 334	13.2	66.0	732	7	US-10-467-657-2637	Sequence 2637, Ap
262	13.4	67.0	1630	7	US-10-750-623-56218	Sequence 56218, A	c 335	13.2	66.0	786	6	US-10-724-598-23	Sequence 23, Appli
263	13.4	67.0	1640	7	US-10-750-185-62907	Sequence 62907, A	c 336	13.2	66.0	862	7	US-10-750-185-57899	Sequence 57899, A
264	13.4	67.0	1640	7	US-10-750-623-62907	Sequence 62907, A	c 337	13.2	66.0	862	7	US-10-750-623-57899	Sequence 57899, A
265	13.4	67.0	1729	7	US-10-750-185-39036	Sequence 39036, A	c 338	13.2	66.0	1005	11	US-11-000-463-644	Sequence 644, App
266	13.4	67.0	1729	7	US-10-750-623-39036	Sequence 39036, A	c 339	13.2	66.0	1017	7	US-10-750-185-34253	Sequence 34253, A
267	13.4	67.0	3416	11	US-11-000-688-130	Sequence 130, App	c 340	13.2	66.0	1017	7	US-10-750-623-34253	Sequence 34253, A
268	13.4	67.0	3417	11	US-11-136-527-2858	Sequence 2858, Ap	c 341	13.2	66.0	1021	7	US-10-750-185-32343	Sequence 32343, A
269	13.4	67.0	3621	7	US-10-858-730-144	Sequence 144, Appli	c 342	13.2	66.0	1021	7	US-10-750-623-32343	Sequence 32343, A
270	13.4	67.0	7239	11	US-11-124-367A-1	Sequence 1, Appli	c 343	13.2	66.0	1035	7	US-10-750-185-56691	Sequence 56691, A
271	13.4	67.0	16700	11	US-11-124-367A-5025	Sequence 5025, Ap	c 344	13.2	66.0	1035	7	US-10-750-623-56691	Sequence 56691, A
272	13.4	67.0	209822	7	US-10-995-561-13198	Sequence 13198, A	c 345	13.2	66.0	1038	7	US-10-750-185-31083	Sequence 31083, A
273	13.4	67.0	215308	11	US-11-121-086-77	Sequence 77, Appli	c 346	13.2	66.0	1038	7	US-10-750-623-31083	Sequence 31083, A
274	13.4	67.0	645179	7	US-10-995-561-13293	Sequence 13293, A	c 347	13.2	66.0	1167	11	US-11-136-527-2156	Sequence 2156, App
275	13.2	66.0	18	7	US-10-310-914A-522856	Sequence 522856, A	c 348	13.2	66.0	1185	7	US-10-858-730-256	Sequence 256, App
276	13.2	66.0	19	7	US-10-310-914A-161303	Sequence 161303, A	c 349	13.2	66.0	1210	7	US-10-750-185-43180	Sequence 43180, A
277	13.2	66.0	19	9	US-11-101-244-503460	Sequence 503460, A	c 350	13.2	66.0	1210	7	US-10-750-623-43180	Sequence 43180, A
278	13.2	66.0	19	9	US-11-101-244-1411708	Sequence 1411708, A	c 351	13.2	66.0	1247	7	US-10-750-185-34648	Sequence 34648, A
279	13.2	66.0	19	9	US-11-101-244-1411817	Sequence 1411817, A	c 352	13.2	66.0	1247	7	US-10-750-623-34648	Sequence 34648, A
280	13.2	66.0	19	10	US-11-083-784-503460	Sequence 503460, A	c 353	13.2	66.0	1389	7	US-10-750-185-41211	Sequence 41211, A
281	13.2	66.0	19	10	US-11-083-784-1411708	Sequence 1411708, A	c 354	13.2	66.0	1389	7	US-10-750-623-41211	Sequence 41211, A
282	13.2	66.0	19	10	US-11-083-784-1411817	Sequence 1411817, A	c 355	13.2	66.0	1464	7	US-10-750-185-37945	Sequence 37945, A
283	13.2	66.0	20	7	US-10-310-914A-161304	Sequence 161304, A	c 356	13.2	66.0	1464	7	US-10-750-623-37945	Sequence 37945, A
284	13.2	66.0	21	7	US-10-310-914A-286964	Sequence 286964, A	c 357	13.2	66.0	1517	7	US-10-750-185-24833	Sequence 24833, A
285	13.2	66.0	21	7	US-10-310-914A-966901	Sequence 966901, A	c 358	13.2	66.0	1517	7	US-10-750-623-24833	Sequence 24833, A
286	13.2	66.0	21	7	US-10-310-914A-504174	Sequence 504174, A	c 359	13.2	66.0	1668	7	US-10-750-185-46138	Sequence 46138, A
287	13.2	66.0	24	7	US-10-310-914A-522857	Sequence 522857, A	c 360	13.2	66.0	1668	7	US-10-750-623-46138	Sequence 46138, A
288	13.2	66.0	25	11	US-11-121-849-146932	Sequence 146932, A	c 361	13.2	66.0	1671	7	US-10-750-185-50711	Sequence 50711, A
289	13.2	66.0	25	11	US-11-121-849-146933	Sequence 146933, A	c 362	13.2	66.0	1671	7	US-10-750-623-50711	Sequence 50711, A
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291	13.2	66.0	25	11	US-11-121-849-146935	Sequence 146935, A	c 364	13.2	66.0	1735	7	US-10-750-185-60708	Sequence 60708, A
292	13.2	66.0	25	11	US-11-121-849-146936	Sequence 146936, A	c 365	13.2	66.0	1765	7	US-10-750-623-60708	Sequence 60708, A
293	13.2	66.0	25	11	US-11-121-849-146937	Sequence 146937, A	c 366	13.2	66.0	2088	11	US-11-242-243-3	Sequence 3, Appli
294	13.2	66.0	25	11	US-11-121-849-147583	Sequence 147583, A	c 367	13.2	66.0	2133	8	US-11-072-512-1791	Sequence 1791, Ap
295	13.2	66.0	25	11	US-11-121-849-479780	Sequence 479780, A	c 368	13.2	66.0	2234	7	US-10-750-185-37919	Sequence 37919, A
296	13.2	66.0	25	11	US-11-121-849-481152	Sequence 481152, A	c 369	13.2	66.0	2234	7	US-10-750-623-37919	Sequence 37919, A
297	13.2	66.0	25	11	US-11-121-849-490808	Sequence 490808, A	c 370	13.2	66.0	2250	11	US-11-136-527-2013	Sequence 2013, Ap
298	13.2	66.0	26	7	US-10-310-914A-966887	Sequence 966887, A	c 371	13.2	66.0	2337	7	US-10-750-185-57687	Sequence 57687, A
299	13.2	66.0	62	7	US-10-310-914A-5274	Sequence 5274, Ap	c 372	13.2	66.0	2337	7	US-10-750-623-57687	Sequence 57687, A
300	13.2	66.0	62	7	US-10-310-914A-14183	Sequence 14183, A	c 373	13.2	66.0	2340	10	US-11-082-389-93	Sequence 93, Appli
301	13.2	66.0	62	7	US-10-310-914A-16511	Sequence 16511, A	c 374	13.2	66.0	2357	11	US-11-000-688-845	Sequence 845, App
302	13.2	66.0	62	7	US-10-310-914A-18766	Sequence 18766, A	c 375	13.2	66.0	2403	7	US-10-955-054A-72	Sequence 72, Appli
303	13.2	66.0	64	7	US-10-310-914A-15556	Sequence 15556, A	c 376	13.2	66.0	2691	7	US-10-750-185-61757	Sequence 61757, A
304	13.2	66.0	64	7	US-10-310-914A-17126	Sequence 17126, A	c 377	13.2	66.0	2691	7	US-10-750-623-61757	Sequence 61757, A
305	13.2	66.0	201	7	US-10-995-561-15335	Sequence 15335, A	c 378	13.2	66.0	2809	11	US-11-128-061-1121	Sequence 1121, Ap
306	13.2	66.0	201	7	US-10-995-561-64622	Sequence 64622, A	c 379	13.2	66.0	2809	11	US-11-128-049-1121	Sequence 1121, Ap
307	13.2	66.0	201	7	US-10-995-561-82251	Sequence 82251, A	c 380	13.2	66.0	2816	7	US-10-623-155-333	Sequence 333, App
308	13.2	66.0	201	7	US-10-995-561-83541	Sequence 83541, A	c 381	13.2	66.0	2910	11	US-11-000-688-628	Sequence 628, App
309	13.2	66.0	201	11	US-11-124-367A-10353	Sequence 10353, A	c 382	13.2	66.0	2985	7	US-10-750-185-43750	Sequence 43750, A
310	13.2	66.0	201	11	US-11-124-367A-5933	Sequence 5933, Ap	c 383	13.2	66.0	2985	7	US-10-750-623-43750	Sequence 43750, A
311	13.2	66.0	270	7	US-10-467-657-4373	Sequence 4373, Ap	c 384	13.2	66.0	3058	11	US-11-136-527-2498	Sequence 2498, Ap
312	13.2	66.0	351	11	US-11-234-786-361	Sequence 361, App	c 385	13.2	66.0	3119	7	US-10-750-185-52429	Sequence 52429, A
313	13.2	66.0	353	8	US-11-021-492-81	Sequence 81, Appli	c 386	13.2	66.0	3119	7	US-10-750-623-52429	Sequence 52429, A

Sequence 170, App  
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Sequence 204856, A

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25 7 US-10-310-914A-919610  
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25 11 US-11-121-849-394053  
25 11 US-11-121-849-609732  
25 11 US-11-136-527-204856

10.0%; Score 20; DB 11; Length 1788;

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:41:42 ; Search time 716.686 Seconds  
(without alignments)  
1586.285 Million cell updates/sec

Title: US-10-805-973-4

Perfect score: 20

Sequence: 1 gctgctgctatgctccgaag 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 28421725653 residues

Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

GenEmbl.\*

1: gb\_ba.\*

2: gb\_in.\*

3: gb\_env.\*

4: gb\_on.\*

5: gb\_ov.\*

6: gb\_pat.\*

7: gb\_ph.\*

8: gb\_pr.\*

9: gb\_ro.\*

10: gb\_sts.\*

11: gb\_sy.\*

12: gb\_un.\*

13: gb\_vi.\*

14: gb\_htg.\*

15: gb\_pl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	95.0	92741	15	AP004473 Lotus cor
2	18.4	92.0	352	15	AK058963 Oryza sat
3	18.4	92.0	370	6	AX705264 Sequence
4	18.4	92.0	617	15	AX273827 Triticum
5	18.4	92.0	1524	6	AX705275 Sequence
6	18.4	92.0	1524	6	AX705276 Sequence
7	18.4	92.0	1524	6	AX705277 Sequence
8	18.4	92.0	1524	6	AX705305 Sequence
9	18.4	92.0	1626	15	AF059600 Hordeum v
10	18.4	92.0	1674	6	AX705285 Sequence
11	18.4	92.0	1674	6	AX705291 Sequence
12	18.4	92.0	1674	6	AX705295 Sequence
13	18.4	92.0	1674	6	AX705297 Sequence
14	18.4	92.0	1674	6	AX705299 Sequence
15	18.4	92.0	1674	6	AX705303 Sequence
16	18.4	92.0	1710	6	CQ969938 Sequence
17	18.4	92.0	1723	6	CQ969920 Sequence
18	18.4	92.0	1756	6	CQ969924 Sequence

19	18.4	92.0	1768	6	CQ969922 Sequence
20	18.4	92.0	1788	6	CQ969926 Sequence
21	18.4	92.0	1788	6	CQ969928 Sequence
22	18.4	92.0	1788	6	CQ969929 Sequence
23	18.4	92.0	1788	6	CQ969930 Sequence
24	18.4	92.0	1788	6	CQ969931 Sequence
25	18.4	92.0	1788	6	CQ969932 Sequence
26	18.4	92.0	1788	6	CQ969934 Sequence
27	18.4	92.0	1788	6	CQ969936 Sequence
28	18.4	92.0	1797	15	AY210405 Triticum
29	18.4	92.0	1797	15	AY210406 Triticum
30	18.4	92.0	1916	6	CS052502 Sequence
31	18.4	92.0	1925	6	CS052500 Sequence
32	18.4	92.0	1935	6	AX705283 Sequence
33	18.4	92.0	1936	6	CS052508 Sequence
34	18.4	92.0	1940	6	CS052498 Sequence
35	18.4	92.0	1956	6	CS052506 Sequence
36	18.4	92.0	1986	6	CS052504 Sequence
37	18.4	92.0	1986	6	AX300485 Sequence
38	18.4	92.0	2251	15	AY885673 Oryza sat
39	18.4	92.0	2286	15	AY885674 Oryza sat
40	18.4	92.0	2301	6	AX300473 Sequence
41	18.4	92.0	2301	15	AB049822 Oryza sat
42	18.4	92.0	110000	15	AP008208_183 Continuation (184
43	18.4	92.0	145423	15	AP005841 Oryza sat
44	18.4	92.0	153252	15	AP004861 Oryza sat
45	17.4	87.0	121	6	AX323931 Sequence
46	17.4	87.0	121	6	AX323932 Sequence
47	17.4	87.0	121	6	AX323971 Sequence
48	17.4	87.0	121	6	AX323972 Sequence
49	17.4	87.0	121	6	AX324115 Sequence
50	17.4	87.0	121	6	AX324116 Sequence
51	17.4	87.0	182	6	AX300481 Sequence
52	17.4	87.0	182	6	AX300483 Sequence
53	17.4	87.0	188	6	AX300484 Sequence
54	17.4	87.0	208	6	AX300480 Sequence
55	17.4	87.0	208	6	AX300482 Sequence
56	17.4	87.0	370	6	AX705263 Sequence
57	17.4	87.0	370	6	AX705265 Sequence
58	17.4	87.0	528	6	AX300487 Sequence
59	17.4	87.0	575	6	CQ969918 Sequence
60	17.4	87.0	1095	6	AX300472 Sequence
61	17.4	87.0	1672	6	AX705273 Sequence
62	17.4	87.0	1674	6	AX705287 Sequence
63	17.4	87.0	1674	6	AX705289 Sequence
64	17.4	87.0	1674	6	AX705301 Sequence
65	17.4	87.0	1675	6	AX705271 Sequence
66	17.4	87.0	1677	6	AX705293 Sequence
67	17.4	87.0	1788	6	CQ969916 Sequence
68	17.4	87.0	1797	15	AY210407 Triticum
69	17.4	87.0	1797	15	AY210408 Triticum
70	17.4	87.0	1985	6	AX300491 Sequence
71	17.4	87.0	1986	6	AX300489 Sequence
72	17.4	87.0	2233	15	AY885675 Oryza sat
73	17.4	87.0	2279	6	BD169500 A gene co
74	17.4	87.0	2279	6	AX300475 Sequence
75	17.4	87.0	2279	15	AB049823 Oryza sat
76	17.4	87.0	236859	14	AC156185 Bos tauru
77	17.4	87.0	236859	14	AC156185 Bos tauru
78	17.4	87.0	244277	14	AC124874 Rattus no
79	17.4	87.0	250522	14	AC094765 Rattus no
80	17.4	87.0	251941	14	AC105590 Rattus no
81	17.4	87.0	256868	14	AC128811 Rattus no
82	16.8	84.0	362	15	AY124583S2 Amaranthu
83	16.8	84.0	362	15	AY124587 Amaranthu
84	16.8	84.0	362	15	AF484068S2 Amaranthu
85	16.8	84.0	447	15	DQ088148S2 Amaranthu
86	16.8	84.0	507	6	AR101737 Sequence
87	16.8	84.0	507	6	AR437542 Sequence
88	16.8	84.0	675	6	CQ750233 Sequence
89	16.8	84.0	1119	6	BD164875 Novel pol
90	16.8	84.0	1119	6	AX122758 Sequence
91	16.8	84.0	1242	6	AR608618 Sequence



c	92	16.8	84.0	1242	6	AX066269	AX066269 Sequence	c	165	15.8	79.0	920	10	BV572327	BV572327	GS91P6248		
	93	16.8	84.0	1995	15	AF310684	AF310684 Lolium mu		166	15.8	79.0	941	15	AB066005	AB066005	AS066005 Chordaria		
	94	16.8	84.0	2002	15	AF487459	AF487459 Bromus te		167	15.8	79.0	943	8	HUMIGHDI	HUMIGHDI	MS4911 Homo sapien		
	95	16.8	84.0	2002	15	AF488771	AF488771 Bromus te		168	15.8	79.0	1086	6	AR670509	AR670509	Sequence		
	96	16.8	84.0	2065	15	AF363369	AF363369 Amaranthu		169	15.8	79.0	1160	1	AF421132	AF421132	AF421132 Aphaniroz		
	97	16.8	84.0	2065	15	AF363370	AF363370 Amaranthu		170	15.8	79.0	1369	1	NNUPENNA2	NNUPENNA2	XS9635 N.mucosa pe		
	98	16.8	84.0	2208	15	ASU55852	US5852 Amaranthus		c	171	15.8	79.0	1988	5	DQ054840	DQ054840	Gadus mor	
	99	16.8	84.0	2784	9	AY208892	AY208892 Mus muscu		c	172	15.8	79.0	2444	6	CQ729892	CQ729892	Sequence	
	100	16.8	84.0	3775	9	BC089380	BC089380 Mus muscu		c	173	15.8	79.0	2723	8	AX026431	AX026431	Homo sapi	
	101	16.8	84.0	5185	9	AK172954	AK172954 Mus muscu		c	174	15.8	79.0	3201	8	BC033107	BC033107	Homo sapi	
	102	16.8	84.0	6288	9	AY429676	AY429676 Mus muscu		c	175	15.8	79.0	3284	15	LEU86662	LEU86662	US6662 Lycopersico	
	103	16.8	84.0	110000	1	BA000036_25	Continuation (26 o		c	176	15.8	79.0	4938	8	AK126105	AK126105	AK126105 Homo sapi	
	104	16.8	84.0	110000	15	AP008210_294	Continuation (295		c	177	15.8	79.0	13785	15	AY062187S1	AY062187S1	AY062187 Oryza sat	
	c	105	16.8	84.0	112027	8	AC007006	AC007006 Homo sapi		c	178	15.8	79.0	20941	2	AF693425	AF693425	AF693425 Drosophil
	106	16.8	84.0	152908	9	AC130550	AC130550 Mus muscu		c	179	15.8	79.0	23612	5	AY6464190	AY6464190	AY6464190 Petromyzo	
	107	16.8	84.0	158901	9	AC159974	AC159974 Mus muscu		c	180	15.8	79.0	37731	8	HSB1D7	HSB1D7	Z82173 Human DNA s	
	c	108	16.8	84.0	175476	14	AC145014	AC145014 Sus scrof		c	181	15.8	79.0	42550	14	AC131377	AC131377	AC131377 Lytechinu
	c	109	16.8	84.0	178870	9	AC107846	AC107846 Mus muscu		c	182	15.8	79.0	68537	14	AC165882	AC165882	AC165882 Bos tauru
	110	16.8	84.0	180373	14	AC162815	AC162815 Bos tauru		c	183	15.8	79.0	73511	8	HS65A6	HS65A6	Z92546 Human DNA s	
	111	16.8	84.0	182854	9	AC140248	AC140248 Mus muscu		c	184	15.8	79.0	75171	8	AL512663	AL512663	AL512663 Human DNA	
	112	16.8	84.0	183097	14	AC027638	AC027638 Homo sapi		c	185	15.8	79.0	77133	14	AC100563	AC100563	AC100563 Mus muscu	
	113	16.8	84.0	183773	8	AC087284	AC087284 Homo sapi		c	186	15.8	79.0	85003	14	AP007322	AP007322	AP007322 Lotus cor	
	114	16.8	84.0	186325	15	OSJN00188	AL662987 Oryza sat		c	187	15.8	79.0	86358	14	AP003739	AP003739	AP003739 Oryza sat	
	c	115	16.8	84.0	187727	14	AC064806	AC064806 Homo sapi		c	188	15.8	79.0	91013	14	AC098834	AC098834	AC098834 Oryza sat
	c	116	16.8	84.0	189650	14	AC149863	AC149863 Papio anu		c	189	15.8	79.0	105807	15	AC006085	AC006085	AC006085 Arabidops
	c	117	16.8	84.0	213439	14	AC149849	AC149849 Papio anu		c	190	15.8	79.0	106467	15	AP005105	AP005105	AP005105 Oryza sat
	c	118	16.8	84.0	251395	14	AC094403	AC094403 Rattus no		c	191	15.8	79.0	110000	1	CF000099_01	Continuation (2 of	
	119	16.8	84.0	349136	1	BX927155	BX927155 Corynebac		c	192	15.8	79.0	110000	1	CR626927_06	Continuation (7 of		
	120	16.8	84.0	349980	6	AX127151	AX127151 Sequence		c	193	15.8	79.0	110000	1	CR626927_33	Continuation (34 o		
	c	121	16.4	82.0	624	10	BV334538	BV334538 S230P691F		c	194	15.8	79.0	110000	1	AP006841_06	Continuation (7 of	
	c	122	16.4	82.0	1921	8	AK129607	AK129607 Homo sapi		c	195	15.8	79.0	110000	1	AP006841_34	Continuation (35 o	
	123	16.4	82.0	2301	4	PIGPSSEL	L39075 Sus scrofa		c	196	15.8	79.0	110000	1	BA000039_16	Continuation (17 o		
	c	124	16.4	82.0	2650	4	AF163766	AF163766 Sus scrof		c	197	15.8	79.0	110000	1	CF000021_02	Continuation (3 of	
	c	125	16.4	82.0	79296	15	ATAC009176	AC009176 Arabidops		c	198	15.8	79.0	110000	14	AC118495_0	AC118495 Rattus no	
	c	126	16.4	82.0	121054	15	ATAC013483	AC013483 Arabidops		c	199	15.8	79.0	110000	15	AP008215_040	Continuation (41 o	
	c	127	16.4	82.0	158983	14	AC020598	AC020598 Homo sapi		c	200	15.8	79.0	110000	15	AP008216_066	Continuation (67 o	
	c	128	16.4	82.0	159288	9	AC131187	AC131187 Mus muscu		c	201	15.8	79.0	110000	15	AP008216_067	Continuation (68 o	
	c	129	16.4	82.0	161572	8	AC106897	AC106897 Homo sapi		c	202	15.8	79.0	110000	15	AP008216_081	Continuation (82 o	
	c	130	16.4	82.0	169814	8	AC093797	AC093797 Homo sapi		c	203	15.8	79.0	110000	15	AP008216_090	Continuation (91 o	
	c	131	16.4	82.0	170340	9	AC122433	AC122433 Mus muscu		c	204	15.8	79.0	110000	15	AP008208_092	Continuation (93 o	
	c	132	16.4	82.0	174573	14	AC159627	AC159627 Mus muscu		c	205	15.8	79.0	110000	15	AP008208_093	Continuation (94 o	
	c	133	16.4	82.0	179206	8	CNS01D96	AL121656 BAC seque		c	206	15.8	79.0	110000	15	AP008208_142	Continuation (143	
	c	134	16.4	82.0	183146	9	AC116697	AC116697 Mus muscu		c	207	15.8	79.0	110000	15	AP008209_195	Continuation (196	
	c	135	16.4	82.0	184392	14	AC155488	AC155488 Zea mays		c	208	15.8	79.0	110000	15	AP008209_314	Continuation (315	
	c	136	16.4	82.0	186895	9	AC115818	AC115818 Mus muscu		c	209	15.8	79.0	110000	15	AP008210_023	Continuation (24 o	
	c	137	16.4	82.0	186950	9	AC127328	AC127328 Mus muscu		c	210	15.8	79.0	110000	15	AP008210_025	Continuation (26 o	
	c	138	16.4	82.0	199981	9	AC157787	AC157787 Mus muscu		c	211	15.8	79.0	110000	15	AP008210_049	Continuation (50 o	
	c	139	16.4	82.0	200368	8	CNS01D0H	AL133244 BAC seque		c	212	15.8	79.0	110000	15	AP008210_070	Continuation (71 o	
	c	140	16.4	82.0	206677	9	AC129085	AC129085 Mus muscu		c	213	15.8	79.0	110000	15	AP008210_074	Continuation (75 o	
	c	141	16.4	82.0	216381	9	AC120138	AC120138 Mus muscu		c	214	15.8	79.0	110000	15	AP008210_077	Continuation (78 o	
	c	142	16.4	82.0	219359	9	AC110250	AC110250 Mus muscu		c	215	15.8	79.0	110000	15	AP008210_078	Continuation (79 o	
	c	143	16.4	82.0	226709	14	AC158902	AC158902 Mus muscu		c	216	15.8	79.0	110000	15	AP008210_101	Continuation (102	
	c	144	16.4	82.0	233990	14	CR974489	CR974489 Mus muscu		c	217	15.8	79.0	110000	15	AP008210_226	Continuation (227	
	c	145	16.4	82.0	243389	14	AC111858	AC111858 Rattus no		c	218	15.8	79.0	110000	15	AP008211_097	Continuation (98 o	
	c	146	16.4	82.0	265430	14	AC163353	AC163353 Mus muscu		c	219	15.8	79.0	110000	15	AP008211_151	Continuation (152	
	c	147	16	80.0	121	6	AX3233959	AX323395 Sequence		c	220	15.8	79.0	110000	15	AP008211_227	Continuation (228	
	c	148	16	80.0	121	6	AX3233960	AX323396 Sequence		c	221	15.8	79.0	110000	15	AP008212_140	Continuation (141	
	c	149	16	80.0	121	6	AX324003	AX324003 Sequence		c	222	15.8	79.0	110000	15	AP008212_145	Continuation (146	
	c	150	16	80.0	121	6	AX324004	AX324004 Sequence		c	223	15.8	79.0	110000	15	AP008212_184	Continuation (185	
	c	151	16	80.0	121	6	AX324159	AX324159 Sequence		c	224	15.8	79.0	110000	15	AP008212_185	Continuation (186	
	c	152	16	80.0	121	6	AX324160	AX324160 Sequence		c	225	15.8	79.0	110000	15	AP008212_185	Continuation (186	
	c	153	16	80.0	655	15	AY09459282	AY094593 Amaranthu		c	226	15.8	79.0	110000	15	AP008212_294	Continuation (295	



C 238	15.8	79.0	141702	15	AP005189	AP005189 Oryza sat
239	15.8	79.0	143109	15	OSJN00224	AL731584 Oryza sat
240	15.8	79.0	146793	6	Q0869876	Q0869876 Sequence
C 241	15.8	79.0	147254	15	OSJN00150	AL662948 Oryza sat
242	15.8	79.0	147676	15	OSJN00150	AL662990 Oryza sat
C 243	15.8	79.0	148347	15	AP005408	AP005408 Oryza sat
C 244	15.8	79.0	149085	15	OSJN00184	AL662982 Oryza sat
C 245	15.8	79.0	149633	8	AC087428	AC087428 Homo sapi
C 246	15.8	79.0	150820	14	AC154053	AC154053 Ictalurus
247	15.8	79.0	151498	8	AC099331	AC099331 Homo sapi
C 248	15.8	79.0	152485	14	AC152170	AC152170 Ornithorh
C 249	15.8	79.0	153214	15	AC121361	AC121361 Oryza sat
C 250	15.8	79.0	153894	15	AP005468	AP005468 Oryza sat
251	15.8	79.0	156641	15	AC158406	AC158406 Oryza sat
C 252	15.8	79.0	156641	15	AC158406	AC158406 Oryza sat
C 253	15.8	79.0	157970	9	AC121916	AC121916 Mus muscu
C 254	15.8	79.0	158481	5	BX001012	BX001012 Zebrafish
C 255	15.8	79.0	159091	15	AC099043	AC099043 Oryza sat
256	15.8	79.0	159835	14	AC137852	AC137852 Mus muscu
C 257	15.8	79.0	160104	15	AC146893	AC146893 Oryza sat
258	15.8	79.0	160723	9	AC157089	AC157089 Mus muscu
C 259	15.8	79.0	163376	15	OSJN00254	AL731612 Oryza sat
C 260	15.8	79.0	163416	15	AP004732	AP004732 Oryza sat
C 261	15.8	79.0	164142	8	AL358552	AL358552 Human DNA
C 262	15.8	79.0	164174	8	AC104188	AC104188 Homo sapi
C 263	15.8	79.0	165653	8	AL138725	AL138725 Human DNA
C 264	15.8	79.0	165918	8	AC104185	AC104185 Homo sapi
C 265	15.8	79.0	166475	15	OSJN00031	AL606590 Oryza sat
266	15.8	79.0	168285	15	AP005690	AP005690 Oryza sat
267	15.8	79.0	168874	15	AP005738	AP005738 Oryza sat
268	15.8	79.0	168998	8	AC022746	AC022746 Homo sapi
269	15.8	79.0	169500	15	AC115686	AC115686 Oryza sat
270	15.8	79.0	169940	14	AC152790	AC152790 Bos tauru
C 271	15.8	79.0	169943	14	AC148779	AC148779 Salmo sal
C 272	15.8	79.0	171347	8	AC099776	AC099776 Homo sapi
C 273	15.8	79.0	172473	15	AP003634	AP003634 Oryza sat
274	15.8	79.0	172475	9	AC154515	AC154515 Mus muscu
C 275	15.8	79.0	172511	15	AP005688	AP005688 Oryza sat
276	15.8	79.0	175461	15	AC137747	AC137747 Oryza sat
C 277	15.8	79.0	175593	15	OSJN00252	AL731603 Oryza sat
C 278	15.8	79.0	175667	15	AC119147	AC119147 Genomic s
C 279	15.8	79.0	176461	15	AP005924	AP005924 Oryza sat
C 280	15.8	79.0	178363	14	AC148615	AC148615 Ictalurus
281	15.8	79.0	179021	15	OSJN00140	AL662937 Oryza sat
282	15.8	79.0	179328	14	AC142429	AC142429 Rattus no
283	15.8	79.0	179898	15	AP003827	AP003827 Oryza sat
C 284	15.8	79.0	180250	15	AP003621	AP003621 Oryza sat
C 285	15.8	79.0	181079	14	AL355519	AL355519 Homo sapi
C 286	15.8	79.0	181253	8	AC099065	AC099065 Homo sapi
287	15.8	79.0	182064	14	BX537163	BX537163 Danio rer
288	15.8	79.0	182183	14	AC134387	AC134387 Papio anu
289	15.8	79.0	182757	9	AC122484	AC122484 Mus muscu
290	15.8	79.0	184795	14	AC153732	AC153732 Salmo sal
C 291	15.8	79.0	186832	14	AC133739	AC133739 Rattus no
292	15.8	79.0	187003	15	AC023353	AC023353 Homo sapi
293	15.8	79.0	188905	15	AP005773	AP005773 Oryza sat
C 294	15.8	79.0	188905	15	AP005773	AP005773 Oryza sat
C 295	15.8	79.0	190664	14	AC027520	AC027520 Homo sapi
296	15.8	79.0	193068	9	AC134596	AC134596 Mus muscu
297	15.8	79.0	194585	14	AC165383	AC165383 Oryctolag
C 298	15.8	79.0	195652	8	AC093572	AC093572 Pan trogl
C 299	15.8	79.0	196355	8	AC099557	AC099557 Homo sapi
300	15.8	79.0	197424	14	AC148616	AC148616 Salmo sal
C 301	15.8	79.0	198005	9	AC117657	AC117657 Mus muscu
302	15.8	79.0	198481	9	AC155722	AC155722 Mus muscu
303	15.8	79.0	198794	8	AL583825	AL583825 Human DNA
C 304	15.8	79.0	198991	9	AL773548	AL773548 Mouse DNA
C 305	15.8	79.0	199113	15	AC021892	AC021892 Genomic s
C 306	15.8	79.0	199433	9	AC160051	AC160051 Mus muscu
C 307	15.8	79.0	200248	14	AC145063	AC145063 Pan trogl
C 308	15.8	79.0	202452	14	AC152991	AC152991 Bos tauru
C 309	15.8	79.0	202924	15	OSJN00284	AL731643 Oryza sat
C 310	15.8	79.0	204952	14	AC148618	AC148618 Salmo sal
C 311	15.8	79.0	205414	14	AC164110	AC164110 Mus muscu
312	15.8	79.0	205623	9	AC156837	AC156837 Mus muscu
313	15.8	79.0	205900	9	AC103610	AC103610 Mus muscu
314	15.8	79.0	206612	15	AC146338	AC146338 Oryza sat
315	15.8	79.0	211119	9	AC159819	AC159819 Mus muscu
316	15.8	79.0	211456	9	AL928926	AL928926 Mouse DNA
317	15.8	79.0	214755	14	AC163235	AC163235 Salmo sal
C 318	15.8	79.0	215962	14	AC112905	AC112905 Rattus no
319	15.8	79.0	216841	14	AC161244	AC161244 Mus muscu
C 320	15.8	79.0	221267	9	AC153537	AC153537 Mus muscu
321	15.8	79.0	223764	14	AC103166	AC103166 Rattus no
322	15.8	79.0	223816	5	BX537162	BX537162 Zebrafish
C 323	15.8	79.0	224179	9	AC130219	AC130219 Mus muscu
324	15.8	79.0	227767	14	AC118766	AC118766 Rattus no
C 325	15.8	79.0	231247	14	AC095426	AC095426 Rattus no
C 326	15.8	79.0	238251	14	AC098340	AC098340 Rattus no
C 327	15.8	79.0	241093	14	AC110135	AC110135 Rattus no
328	15.8	79.0	241778	14	AC095958	AC095958 Rattus no
329	15.8	79.0	244950	14	AC157072	AC157072 Bos tauru
330	15.8	79.0	245462	14	AC106480	AC106480 Rattus no
C 331	15.8	79.0	245469	14	AC163130	AC163130 Bos tauru
332	15.8	79.0	249722	14	AC118801	AC118801 Rattus no
C 333	15.8	79.0	250599	14	AC113696	AC113696 Rattus no
C 334	15.8	79.0	256749	14	AC103324	AC103324 Rattus no
C 335	15.8	79.0	265620	14	AC111226	AC111226 Rattus no
336	15.8	79.0	278876	14	AC120936	AC120936 Rattus no
337	15.8	79.0	298836	14	AY775952	AY775952 Ictalurus
C 338	15.8	79.0	298836	14	AY775952	AY775952 Ictalurus
C 339	15.8	79.0	300029	15	AE017077	AE017077 Oryza sat
C 340	15.8	79.0	300658	1	AE017313	AE017313 Desulfovi
C 341	15.8	79.0	301235	1	AE016799	AE016799 Vibrio vu
342	15.8	79.0	301278	1	AE015939	AE015939 Clostridi
C 343	15.8	79.0	303506	14	AC114691	AC114691 Rattus no
C 344	15.8	79.0	304110	15	AE017074	AE017074 Oryza sat
C 345	15.8	79.0	322712	14	AC098937	AC098937 Rattus no
C 346	15.8	79.0	348071	1	BX572100	BX572100 Pectinatu
347	15.4	77.0	1266	1	AY659942	AY659942 Clostrid
C 348	15.4	77.0	1266	1	AY659942	AY659942 Clostrid
C 349	15.4	77.0	2636	15	AY762116	AY762116 Chlamydom
C 350	15.4	77.0	9198	2	AJ619741	AJ619741 Nautilus
C 351	15.4	77.0	12591	1	AE007762	AE007762 Clostridi
352	15.4	77.0	14090	14	AC006784	AC006784 Caenorhab
C 353	15.4	77.0	66626	2	AC006834	AC006834 Caenorhab
354	15.4	77.0	85897	14	AP007920	AP007920 Lotus cor
C 355	15.4	77.0	97773	14	AC139596	AC139596 Rattus no
C 356	15.4	77.0	110000	1	AP006618	AP006618 24
357	15.4	77.0	110000	1	BA000022	BA000022 21
C 358	15.4	77.0	110000	1	BA000040	BA000040 50
C 359	15.4	77.0	110000	1	BA000040	BA000040 79
360	15.4	77.0	110000	14	AC118875	AC118875 2
361	15.4	77.0	110000	15	AP008214	AP008214 204
362	15.4	77.0	110000	15	CR382131	CR382131 12
363	15.4	77.0	110000	15	AE017347	AE017347 11
C 364	15.4	77.0	110000	15	AP008208	AP008208 015
C 365	15.4	77.0	114932	14	AC116344	AC116344 Homo sapi
C 366	15.4	77.0	118733	14	AP003885	AP003885 Oryza sat
C 367	15.4	77.0	125503	15	AP004150	AP004150 Oryza sat
C 368	15.4	77.0	145040	8	AC013471	AC013471 Homo sapi
C 369	15.4	77.0	145514	8	AC099509	AC099509 Homo sapi
370	15.4	77.0	146994	8	AL137245	AL137245 Human DNA
C 371	15.4	77.0	149184	14	AC159925	AC159925 Atelerix
C 372	15.4	77.0	150567	14	AC160584	AC160584 Atelerix
373	15.4	77.0	152973	15	AP004463	AP004463 Oryza sat
374	15.4	77.0	154373	15	AY660566	AY660566 Huperzia
C 375	15.4	77.0	154373	15	AY660566	AY660566 Huperzia
376	15.4	77.0	155219	14	AL141758	AL141758 Apis mell
377	15.4	77.0	157176	8	AC007092	AC007092 Homo sapi
C 378	15.4	77.0	161075	9	AC154796	AC154796 Mus muscu
379	15.4	77.0	163058	8	AL391475	AL391475 Human DNA
380	15.4	77.0	172814	8	AC144521	AC144521 Homo sapi
C 381	15.4	77.0	178314	14	AC144347	AC144347 Homo sapi
C 382	15.4	77.0	181728	14	AC162924	AC162924 Mus muscu
C 383	15.4	77.0	184276	9	AC115917	AC115917 Mus muscu

C 384	15.4	77.0	184483	14	AC155873	AC155873 Bos taurus
C 385	15.4	77.0	186745	9	AC087557	AC087557 Mus muscu
C 386	15.4	77.0	195048	9	AC091158	AC091158 Mus muscu
C 387	15.4	77.0	195968	9	AC125224	AC125224 Mus muscu
C 388	15.4	77.0	198363	14	AC144410	AC144410 Mus muscu
C 389	15.4	77.0	200219	14	AC117312	AC117312 Rattus no
C 390	15.4	77.0	201299	8	AC007158	AC007158 Homo sapi
C 391	15.4	77.0	203839	14	AC091288	AC091288 Mus muscu
C 392	15.4	77.0	205397	14	AC162596	AC162596 Bos taurus
C 393	15.4	77.0	213563	14	AC141582	AC141582 Rattus no
C 394	15.4	77.0	214188	14	AC152247	AC152247 Bos taurus
C 395	15.4	77.0	231096	14	AC118821	AC118821 Rattus no
C 396	15.4	77.0	231295	14	AC097286	AC097286 Rattus no
C 397	15.4	77.0	236159	14	AC125553	AC125553 Rattus no
C 398	15.4	77.0	237774	14	AC111523	AC111523 Rattus no
C 399	15.4	77.0	240130	14	CT009635	CT009635 Mus muscu
C 400	15.4	77.0	240741	14	AC161070	AC161070 Bos taurus
C 401	15.4	77.0	241473	14	AC103164	AC103164 Rattus no
C 402	15.4	77.0	241592	14	AC111683	AC111683 Rattus no
C 403	15.4	77.0	241789	9	AC102545	AC102545 Mus muscu
C 404	15.4	77.0	243280	14	AC111948	AC111948 Rattus no
C 405	15.4	77.0	245853	14	AC131862	AC131862 Rattus no
C 406	15.4	77.0	248744	14	AC108279	AC108279 Rattus no
C 407	15.4	77.0	252397	14	AC129398	AC129398 Rattus no
C 408	15.4	77.0	252428	14	AC152680	AC152680 Bos taurus
C 409	15.4	77.0	252521	14	AC095166	AC095166 Rattus no
C 410	15.4	77.0	252647	14	AC159920	AC159920 Meleagris
C 411	15.4	77.0	259866	14	AC106485	AC106485 Rattus no
C 412	15.4	77.0	273457	14	AC120751	AC120751 Rattus no
C 413	15.4	77.0	277885	14	AC107266	AC107266 Rattus no
C 414	15.4	77.0	279859	14	AC118855	AC118855 Rattus no
C 415	15.4	77.0	280005	14	AC119021	AC119021 Rattus no
C 416	15.4	77.0	301396	14	AC121396	AC121396 Rattus no
C 417	15.2	76.0	177	6	CS015749	CS015749 Sequence
C 418	15.2	76.0	177	6	AX776623	AX776623 Sequence
C 419	15.2	76.0	276	9	RNMAC188	X79791 R. norvegicu
C 420	15.2	76.0	289	6	AX523987	AX523987 Sequence
C 421	15.2	76.0	289	6	AX552725	AX552725 Sequence
C 422	15.2	76.0	310	9	MM1C2B	Z12755 M.musculus
C 423	15.2	76.0	360	10	G71455	G71455 A58641134FM
C 424	15.2	76.0	367	10	G70753	G70753 A58641134FB
C 425	15.2	76.0	393	10	G71922	G71922 A64996434FM
C 426	15.2	76.0	411	6	CQ394876	CQ394876 Sequence
C 427	15.2	76.0	411	6	CQ401223	CQ401223 Sequence
C 428	15.2	76.0	426	10	AU047755	AU047755 Rattus no
C 429	15.2	76.0	436	10	G71374	G71374 V50085311FM
C 430	15.2	76.0	452	10	G58100	G58100 SHGC-104120
C 431	15.2	76.0	462	6	CQ407607	CQ407607 Sequence
C 432	15.2	76.0	561	6	CQ652994	CQ652994 Sequence
C 433	15.2	76.0	569	10	BV440559	BV440559 S237P6322
C 434	15.2	76.0	577	10	BV336165	BV336165 S230P6483
C 435	15.2	76.0	585	6	CQ422628	CQ422628 Sequence
C 436	15.2	76.0	635	10	BV212485	BV212485 S233P6417
C 437	15.2	76.0	636	10	BV431359	BV431359 S237P6270
C 438	15.2	76.0	645	6	AX954517	AX954517 Sequence
C 439	15.2	76.0	654	6	CQ649010	CQ649010 Sequence
C 440	15.2	76.0	654	10	BV401185	BV401185 S229P6195
C 441	15.2	76.0	681	6	AX607194	AX607194 Sequence
C 442	15.2	76.0	681	6	CQ612681	CQ612681 Sequence
C 443	15.2	76.0	713	8	HSETVP07	AF109626 Homo sapi
C 444	15.2	76.0	729	10	BV064918	BV064918 S212P6053
C 445	15.2	76.0	744	6	CQ431479	CQ431479 Sequence
C 446	15.2	76.0	762	10	BV647577	BV647577 S215P6165
C 447	15.2	76.0	800	6	CQ768807	CQ768807 Sequence
C 448	15.2	76.0	800	6	CQ802041	CQ802041 Sequence
C 449	15.2	76.0	811	2	BT023026	BT023026 Drosophil
C 450	15.2	76.0	861	13	AX390412	AX390412 Fibropapi
C 451	15.2	76.0	861	13	AX390416	AX390416 Fibropapi
C 452	15.2	76.0	888	15	AY876248	AY876248 Karenia b
C 453	15.2	76.0	960	9	AY073512	AY073512 Mus muscu
C 454	15.2	76.0	960	9	AX318234	AX318234 Mus muscu
C 455	15.2	76.0	1058	15	AK103197	AK103197 Oryza sat
C 456	15.2	76.0	1106	5	AB027707	AB027707 Carassius
BT019211	15.2	76.0	1112	15	BT019211	BT019211 Zea mays
CQ718323	15.2	76.0	1124	6	CQ718323	CQ718323 Sequence
BD133072	15.2	76.0	1339	6	BD133072	BD133072 Mammalian
AF184973	15.2	76.0	1339	9	AF184973	AF184973 Mus muscu
CQ874808	15.2	76.0	1371	6	CQ874808	CQ874808 Sequence
AY239289	15.2	76.0	1371	9	AY239289	AY239289 Mus muscu
AY309459	15.2	76.0	1373	9	AY309459	AY309459 Mus muscu
BC024610	15.2	76.0	1386	9	BC024610	BC024610 Mus muscu
CQ874809	15.2	76.0	1386	9	CQ874809	CQ874809 Sequence
AY239290	15.2	76.0	1393	9	AY239290	AY239290 Mus muscu
AY256960	15.2	76.0	1518	15	AY256960	AY256960 Fagopyrum
AY052751	15.2	76.0	1547	4	AY052751	AY052751 Canis fam
BC041023	15.2	76.0	1672	8	BC041023	BC041023 Homo sapi
BD156773	15.2	76.0	1691	6	BD156773	BD156773 Primer fo
AX877651	15.2	76.0	1691	6	AX877651	AX877651 Sequence
AK001840	15.2	76.0	1691	8	AK001840	AK001840 Homo sapi
BT021897	15.2	76.0	1755	4	BT021897	BT021897 Bos taurus
BT016825	15.2	76.0	1901	15	BT016825	BT016825 Zea mays
AK119516	15.2	76.0	1937	15	AK119516	AK119516 Oryza sat
I93633	15.2	76.0	1969	6	I93633	I93633 Sequence 2
AR227737	15.2	76.0	1969	6	AR227737	AR227737 Sequence
AR227738	15.2	76.0	1969	6	AR227738	AR227738 Sequence
A19545	15.2	76.0	2089	6	A19545	A19545 Synthetic n
A19547	15.2	76.0	2141	6	A19547	A19547 Synthetic n
AK109628	15.2	76.0	2185	15	AK109628	AK109628 Oryza sat
AY428947	15.2	76.0	2224	15	AY428947	AY428947 Camelina
AF094326	15.2	76.0	2227	15	AF094326	AF094326 Basella sc
AY428879	15.2	76.0	2236	15	AY428879	AY428879 Camelina
AY428880	15.2	76.0	2236	15	AY428880	AY428880 Camelina
CS015721	15.2	76.0	2331	6	CS015721	CS015721 Sequence
AX776594	15.2	76.0	2331	6	AX776594	AX776594 Sequence
BD157200	15.2	76.0	2332	6	BD157200	BD157200 Primer fo
AX878405	15.2	76.0	2332	6	AX878405	AX878405 Sequence
AK021429	15.2	76.0	2332	8	AK021429	AK021429 Homo sapi
AK106325	15.2	76.0	2469	15	AK106325	AK106325 Oryza sat
GHASAS109	15.2	76.0	2544	15	ZMAHAS109	Z46960 G.hirsutum
X63554	15.2	76.0	2545	6	X63554	X63554 Z.mays gene
I07769	15.2	76.0	2545	6	I07769	I07769 Sequence 25
X37113	15.2	76.0	2623	1	X37113	X37113 X.campestri
ZMAHAS108	15.2	76.0	2664	15	ZMAHAS108	X63553 Z.mays gene
CS015718	15.2	76.0	2667	6	CS015718	CS015718 Sequence
CS114804	15.2	76.0	2667	6	CS114804	CS114804 Sequence
AX776591	15.2	76.0	2667	6	AX776591	AX776591 Sequence
AP004473	15.2	76.0	92741	bp	AP004473	AP004473 DNA linear
LOCUS	15.2	76.0	92741	bp	LOCUS	LOCUS corniculatus var. japonicus genomic DNA, chromosome 4,
DEFINITION	15.2	76.0	92741	bp	DEFINITION	clone:J110J15, TM0007, complete sequence.
ACCESSION	15.2	76.0	92741	bp	ACCESSION	AP004473.1 GI:17736840
VERSION	15.2	76.0	92741	bp	VERSION	AP004473.1
KEYWORDS	15.2	76.0	92741	bp	KEYWORDS	HTG.
SOURCE	15.2	76.0	92741	bp	SOURCE	Lotus corniculatus var. japonicus (Lotus japonicus)
ORGANISM	15.2	76.0	92741	bp	ORGANISM	Lotus corniculatus var. japonicus
REFERENCE	15.2	76.0	92741	bp	REFERENCE	1
AUTHORS	15.2	76.0	92741	bp	AUTHORS	Sato, S., Kaneko, T., Nakamura, Y., Asamizu, E., Kato, T. and Tabata, S.
TITLE	15.2	76.0	92741	bp	TITLE	Structural Analysis of a Lotus japonicus Genome. I. Sequence
JOURNAL	15.2	76.0	92741	bp	JOURNAL	Features and Mapping of Fifty-six TAC clones which cover the 5.4 Mb
REFERENCE	15.2	76.0	92741	bp	REFERENCE	Regions of the Genome
AUTHORS	15.2	76.0	92741	bp	AUTHORS	Unpublished
TITLE	15.2	76.0	92741	bp	TITLE	2 (bases 1 to 92741)
JOURNAL	15.2	76.0	92741	bp	JOURNAL	Nakamura, Y.
REFERENCE	15.2	76.0	92741	bp	REFERENCE	Direct Submission
AUTHORS	15.2	76.0	92741	bp	AUTHORS	Submitted (13-DEC-2001) Yasukazu Nakamura, Kazusa DNA Research
TITLE	15.2	76.0	92741	bp	TITLE	
JOURNAL	15.2	76.0	92741	bp	JOURNAL	

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 169.231 Seconds  
(without alignments)  
787.645 Million cell updates/sec

Title: US-10-805-973-4

Perfect score: 20

Sequence: 1 gtgctgctatgatccgaag 20

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 1.0

Searched: 4996997 seqs, 332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

N\_Geneseq\_21.\*

1: Geneseqn1980s.\*

2: Geneseqn1990s.\*

3: Geneseqn2000s.\*

4: Geneseqn2001as.\*

5: Geneseqn2001bs.\*

6: Geneseqn2002as.\*

7: Geneseqn2002bs.\*

8: Geneseqn2003as.\*

9: Geneseqn2003bs.\*

10: Geneseqn2003cs.\*

11: Geneseqn2003ds.\*

12: Geneseqn2004as.\*

13: Geneseqn2004bs.\*

14: Geneseqn2005s.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.4	92.0	352	14	AEB65735
2	18.4	92.0	370	8	Acc00301 Wild-type
3	18.4	92.0	1524	10	Adf50207 Wheat Tea
4	18.4	92.0	1524	10	Adf50205 Wheat Tea
5	18.4	92.0	1524	10	Adf50206 Wheat Tea
6	18.4	92.0	1673	10	Adf50216 Wheat Tea
7	18.4	92.0	1673	10	Adf50230 Partial A
8	18.4	92.0	1673	10	Adf50226 Partial A
9	18.4	92.0	1673	10	Adf50228 Partial A
10	18.4	92.0	1674	10	Adf50234 Partial A
11	18.4	92.0	1674	10	Adf50222 Partial A
12	18.4	92.0	1710	14	Adv11376 Imidazoli
13	18.4	92.0	1723	14	Adv11358 Imidazoli
14	18.4	92.0	1756	14	Adv11362 Imidazoli
15	18.4	92.0	1768	14	Adv11360 Imidazoli
16	18.4	92.0	1788	14	Adv11372 Durum whe
17	18.4	92.0	1788	14	Adv11366 Durum whe
18	18.4	92.0	1788	14	Adv11368 Durum whe
19	18.4	92.0	1788	14	Adv11364 Durum whe

20	18.4	92.0	1788	14	ADV11369 Durum whe
21	18.4	92.0	1788	14	ADV11367 Durum whe
22	18.4	92.0	1788	14	ADV11370 Durum whe
23	18.4	92.0	1916	14	ADY79260 DNA encod
24	18.4	92.0	1925	14	ADY79258 DNA encod
25	18.4	92.0	1935	10	ADFS0214 Rice ALU
26	18.4	92.0	1936	14	ADY79266 DNA encod
27	18.4	92.0	1940	14	ADY79256 DNA encod
28	18.4	92.0	1956	14	ADY79264 DNA encod
29	18.4	92.0	1986	6	ABK14667 Rice acet
30	18.4	92.0	1986	14	ADY79262 DNA encod
31	18.4	92.0	2300	10	ADD42022 Rice acet
32	18.4	92.0	2301	6	ABK14657 Rice acet
33	18.4	92.0	2301	10	ADD42020 Rice acet
34	18.4	92.0	2301	14	ADV11374 Durum whe
35	17.4	87.0	121	6	ABK24894 Glyphosat
36	17.4	87.0	121	6	ABK24750 Glyphosat
37	17.4	87.0	121	6	ABK24893 Glyphosat
38	17.4	87.0	121	6	ABK24709 Glyphosat
39	17.4	87.0	121	6	ABK24710 Glyphosat
40	17.4	87.0	121	6	ABK24749 Glyphosat
41	17.4	87.0	121	12	ADN43400 Mutant ce
42	17.4	87.0	121	12	ADN43401 Mutant ce
43	17.4	87.0	121	12	ADN43441 Mutant ce
44	17.4	87.0	121	12	ADN43440 Mutant ce
45	17.4	87.0	121	12	ADN43584 Mutant ce
46	17.4	87.0	121	12	ADN43585 Mutant ce
47	17.4	87.0	369	8	ACC00302 Consensus
48	17.4	87.0	370	8	ACC00300 Mutant ac
49	17.4	87.0	411	8	ABZ82272 Acetohydr
50	17.4	87.0	498	8	ABZ82274 Acetohydr
51	17.4	87.0	509	12	ADO21234 Wheat Bro
52	17.4	87.0	511	8	ABZ82273 Acetohydr
53	17.4	87.0	528	6	ABK14668 Partial c
54	17.4	87.0	575	12	ADO21236 Wheat Kri
55	17.4	87.0	575	14	ADV11356 Imidazoli
56	17.4	87.0	1095	6	ABK14656 Rice acet
57	17.4	87.0	1672	10	ADFS0203 Partial T
58	17.4	87.0	1674	10	ADFS0232 Partial A
59	17.4	87.0	1674	10	ADFS0218 Partial A
60	17.4	87.0	1674	10	ADFS0220 Partial A
61	17.4	87.0	1675	10	ADFS0201 Partial T
62	17.4	87.0	1677	10	ADFS0224 Partial A
63	17.4	87.0	1788	14	ADV11354 Imidazoli
64	17.4	87.0	1985	6	ABK14670 cDNA enco
65	17.4	87.0	1986	6	ABK14669 cDNA enco
66	17.4	87.0	2279	6	ABK14658 cDNA enco
67	17.4	87.0	2279	6	ABN89399 Rice acet
68	17.4	87.0	2294	10	ADD42026 Rice acet
69	17.4	87.0	2294	10	ADD42024 Rice acet
70	16.8	84.0	507	3	AAAS3561 Human goo
71	16.8	84.0	507	4	AAH26475 Adrenal g
72	16.8	84.0	507	6	ABX14174 Human inc
73	16.8	84.0	507	12	ADN59110 Human goo
74	16.8	84.0	843	11	ACL28054 Rice abio
75	16.8	84.0	1119	5	AAH67639 C glutami
76	16.8	84.0	1242	4	AAF71070 C. glutam
77	16.8	84.0	1846	13	ADR23157 Smooth pi
78	16.8	84.0	1930	13	ADR23159 Smooth pi
79	16.8	84.0	3525	13	ADN59276 Murine th
80	16.8	84.0	3525	13	ADN59276 Murine th
81	16.8	84.0	4063	10	ADN59276 Murine th
82	16.8	84.0	5262	14	ADN59276 Murine th
83	16.8	84.0	349980	5	AAH68532 C glutami
84	16.8	84.0	121	6	ABK24781 Glyphosat
85	16.8	84.0	121	6	ABK24937 Glyphosat
86	16.8	84.0	121	6	ABK24782 Glyphosat
87	16.8	84.0	121	6	ABK24737 Glyphosat
88	16.8	84.0	121	6	ABK24738 Glyphosat
89	16.8	84.0	121	6	ABK24938 Glyphosat
90	16.8	84.0	121	12	ADN43629 Mutant ce
91	16.8	84.0	121	12	ADN43472 Mutant ce
92	16.8	84.0	121	12	ADN43428 Mutant ce

93	16	80.0	121	12	ADN43628	Adn43628 Mutant ce	166	15.2	76.0	1673	13	ADS64116	AdS64116 Bacterial
c 94	16	80.0	121	12	ADN43473	Adn43473 Mutant ce	167	15.2	76.0	1691	4	AAH14781	Aah14781 Human cDN
c 95	16	80.0	121	12	ADN43429	Adn43429 Mutant ce	168	15.2	76.0	1701	6	ABK35062	Abk35062 Human cDN
96	16	80.0	521	8	ABX98502	Abx98502 Rice albu	169	15.2	76.0	1969	2	AAQ34552	Aaq34552 Herbicide
97	15.8	79.0	84	1	AAH50192	Aan50192 Human imm	170	15.2	76.0	1969	2	AAQ34553	Aaq34553 Herbicide
98	15.8	79.0	84	1	AAH50100	Aan61000 Promoter	171	15.2	76.0	1969	2	AAV24026	Aav24026 AHAS clon
c 99	15.8	79.0	207	2	AAV19502	Aav19502 Retrovira	172	15.2	76.0	1969	2	AAV24027	Aav24027 AHAS clon
c 100	15.8	79.0	210	2	AAV19503	Aav19503 Retrovira	173	15.2	76.0	1969	6	ABS55709	AbS55709 DNA encod
c 101	15.8	79.0	210	2	AAV19501	Aav19501 Retrovira	174	15.2	76.0	1969	6	ABS55708	AbS55708 DNA encod
c 102	15.8	79.0	210	2	AAV19505	Aav19505 Retrovira	c 175	15.2	76.0	2047	14	ADM16408	AdM16408 Eucalyptu
c 103	15.8	79.0	210	2	AAV19506	Aav19506 Retrovira	176	15.2	76.0	2089	2	AAQ25380	Aaq25380 Sequence
c 104	15.8	79.0	726	11	ADJ111689	Adj11689 Rice DNA	177	15.2	76.0	2141	2	AAQ25382	Aaq25382 Sequence
105	15.8	79.0	1086	3	AAFO7487	Aaf07487 Fusarium	178	15.2	76.0	2216	13	ADX09977	Adx09977 Plant ful
106	15.8	79.0	1086	13	ADU51528	Adu51528 Fusarium	c 179	15.2	76.0	2295	13	ADT20215	Adt20215 Plant cDN
107	15.8	79.0	1086	14	ADZ89531	Adz89531 Fusarium	180	15.2	76.0	2300	2	AAH62735	Aah62735 Herbicide
108	15.8	79.0	1476	10	ADE64052	Ade64052 Human gen	181	15.2	76.0	2331	9	ADB80968	AdB80968 RING-SH c
c 109	15.8	79.0	2762	9	ACH03834	Ach03834 Human cDN	182	15.2	76.0	2331	10	AAH56224	Aal56224 Human ubi
c 110	15.8	79.0	3169	12	ADK70293	Adk70293 Respirato	183	15.2	76.0	2331	10	ADH73559	Adh73559 Human POS
c 111	15.8	79.0	3183	10	ADD29599	Add29599 Human tum	184	15.2	76.0	2331	13	ADR89692	Adr89692 Human POS
c 112	15.8	79.0	3201	14	ADZ49676	Adz49676 Insulin B	185	15.2	76.0	2331	13	ADS34240	AdS34240 POSH prot
113	15.8	79.0	28564	10	ADD47107	Add47107 Rat Gene	186	15.2	76.0	2331	13	ADT77899	Adt77899 Human POS
114	15.8	79.0	28564	10	ADD47113	Add47113 Rat Gene	187	15.2	76.0	2331	13	ADU73756	Adu73756 Human POS
115	15.8	79.0	28564	10	ADD47117	Add47117 Rat Gene	188	15.2	76.0	2331	13	ADU68992	Adu68992 Human ple
116	15.8	79.0	28564	10	ADD47111	Add47111 Rat Gene	189	15.2	76.0	2331	14	ADW87407	AdW87407 Human POS
117	15.8	79.0	28564	10	ADE83334	Ade83334 Rat Gene	190	15.2	76.0	2331	14	ADZ66424	AdZ66424 Human POS
118	15.8	79.0	28564	10	ADE57550	Ade57550 Rat Gene	191	15.2	76.0	2332	4	AAH15208	Aah15208 Human cDN
119	15.8	79.0	28564	10	ADE57554	Ade57554 Rat Gene	192	15.2	76.0	2332	9	ADB80970	AdB80970 RING-SH c
120	15.8	79.0	146793	13	ABD332719	Abd32719 Mouse can	193	15.2	76.0	2511	13	ADT41630	Adt41630 Bacterial
c 121	15.2	76.0	41	10	ACF79779	Acf79779 Maize ace	194	15.2	76.0	2522	13	ADS63728	AdS63728 Bacterial
122	15.2	76.0	41	10	ACF79781	Acf79781 Maize ace	195	15.2	76.0	2522	13	ADS63361	AdS63361 Bacterial
123	15.2	76.0	177	10	ADH73588	Adh73588 Human ubi	196	15.2	76.0	2546	2	AAQ03661	Aaq03661 Maize C3
124	15.2	76.0	177	10	ADH73588	Adh73588 Human POS	197	15.2	76.0	2667	9	ADB80966	AdB80966 RING-SH c
125	15.2	76.0	177	13	ADR89721	Adr89721 Human POS	198	15.2	76.0	2667	10	AAH56222	Aal56222 Human ubi
126	15.2	76.0	177	13	ADS34257	AdS34257 POSH prot	199	15.2	76.0	2667	10	ADH73556	Adh73556 Human POS
127	15.2	76.0	177	13	ADT77928	Adt77928 Human POS	200	15.2	76.0	2667	13	ADR89689	Adr89689 Human POS
128	15.2	76.0	177	13	ADU73785	Adu73785 Human POS	201	15.2	76.0	2667	13	ADS34237	AdS34237 POSH prot
129	15.2	76.0	177	13	ADU69015	Adu69015 Human ple	202	15.2	76.0	2667	13	ADT77896	Adt77896 Human POS
130	15.2	76.0	177	14	ADW87420	Adw87420 Human POS	203	15.2	76.0	2667	13	ADU73753	Adu73753 Human POS
131	15.2	76.0	177	14	ADZ66453	AdZ66453 Human POS	204	15.2	76.0	2667	13	ADU68989	Adu68989 Human ple
132	15.2	76.0	203	12	ADG99377	Adg99377 Kidney di	205	15.2	76.0	2667	14	ADM87404	AdM87404 Human POS
133	15.2	76.0	270	8	ABX53592	Abx53592 Murine ES	206	15.2	76.0	2667	14	ADZ66421	AdZ66421 Human POS
c 134	15.2	76.0	289	4	AAK53452	Aak53452 Murine tr	207	15.2	76.0	2667	14	AEA10628	Aea10628 Human POS
135	15.2	76.0	326	12	ADP93981	Adp93981 Cotton ex	208	15.2	76.0	2745	4	ABL28798	AbL28798 Drosophill
136	15.2	76.0	411	5	ADI69205	Adi69205 Human ova	209	15.2	76.0	2967	2	AAQ03659	Aaq03659 Maize C1
137	15.2	76.0	411	5	ADI75552	Adi75552 Human ova	210	15.2	76.0	3251	6	ABN85326	Abn85326 Human cyt
138	15.2	76.0	462	5	ADL40788	Adl40788 Human ova	211	15.2	76.0	3645	6	ABK12769	AbK12769 Mouse cDN
c 139	15.2	76.0	478	13	ACN47100	Acn47100 Cotton pr	212	15.2	76.0	3645	10	ADF72774	Adf72774 Murine va
140	15.2	76.0	490	4	AAZ27077	Aaz27077 cDNA enco	213	15.2	76.0	4075	5	ADL61993	AdL61993 Human ova
141	15.2	76.0	490	4	ABK43851	Abk43851 DNA encod	214	15.2	76.0	5128	9	ADB80967	AdB80967 RING-SH c
142	15.2	76.0	490	10	ADB93255	Adb93255 Human cDN	215	15.2	76.0	5128	10	AAH56223	Aal56223 Human ubi
143	15.2	76.0	490	12	ADI54238	Adi54238 cDNA enco	216	15.2	76.0	5128	10	ADH73558	Adh73558 Human POS
c 144	15.2	76.0	551	13	ACN47084	Acn47084 Cotton pr	217	15.2	76.0	5128	13	ADR89691	Adr89691 Human POS
c 145	15.2	76.0	561	6	AEH71019	Aeh71019 Streptoco	218	15.2	76.0	5128	13	ADS34239	AdS34239 POSH prot
146	15.2	76.0	585	4	AAH15197	Aah15197 Human bre	219	15.2	76.0	5128	13	ADT77898	Adt77898 Human POS
147	15.2	76.0	623	13	ACN45888	Acn45888 Cotton pr	220	15.2	76.0	5128	13	ADU73755	Adu73755 Human POS
c 148	15.2	76.0	654	6	ABN69027	Abn69027 Streptoco	221	15.2	76.0	5128	13	ADU68991	Adu68991 Human ple
c 149	15.2	76.0	657	13	ADV83982	Adv83982 Streptoco	222	15.2	76.0	5128	14	ADM87406	AdM87406 Human POS
150	15.2	76.0	681	4	ABL28799	AbL28799 Drosophill	223	15.2	76.0	5128	14	ADZ66423	AdZ66423 Human POS
151	15.2	76.0	744	4	AAH24043	Aah24043 Human bre	224	15.2	76.0	5205	8	ABN87810	Abn87810 Human ova
152	15.2	76.0	799	11	ACN85218	Acn85218 Breast ca	225	15.2	76.0	5606	6	ABN87810	Abn87810 Human ova
153	15.2	76.0	799	13	ADX64880	Adx64880 Plant ful	226	15.2	76.0	6504	13	ADS47030	AdS47030 Bacterial
154	15.2	76.0	1061	13	ADX34278	Adx34278 Plant ful	227	15.2	76.0	6504	11	ACN44420	Acn44420 Mouse gen
155	15.2	76.0	1178	13	ADX65310	Adx65310 Plant ful	228	15.2	76.0	69000	14	ADZ42274	AdZ42274
156	15.2	76.0	1339	2	AAV84343	Aav84343 Mouse neu	c 229	15.2	76.0	76644	12	ADQ97602	AdQ97602 Mouse can
157	15.2	76.0	1369	4	ABK43541	Abk43541 DNA encod	230	15.2	76.0	94781	13	ABD32711	Abd32711 Mouse can
158	15.2	76.0	1369	12	ADI53928	Adi53928 cDNA enco	c 231	15.2	76.0	95394	13	ADV87742	Adv87742 Streptoco
159	15.2	76.0	1371	13	ADR27865	Adr27865 Murine VE	c 232	15.2	76.0	95394	13	ADV78995	Adv78995 Streptoco
160	15.2	76.0	1391	4	ABL10123	AbL10123 Mouse Not	c 233	15.2	76.0	110000	4	AAI99682	AAI99682
161	15.2	76.0	1391	6	ABL35057	AbL35057 Murine CD	234	15.2	76.0	110000	4	AAI99683	AAI99683
162	15.2	76.0	1393	13	ADR27866	Adr27866 Murine VE	c 235	15.2	76.0	110000	6	ABN71527	AbN71527
c 163	15.2	76.0	1406	13	ADS49435	AdS49435 Bacterial	c 236	15.2	76.0	110000	12	ADQ97138	AdQ97138
164	15.2	76.0	1478	13	ADO83726	Ado83726 Plant ful	c 237	15.2	76.0	110000	12	ADQ97138	AdQ97138
165	15.2	76.0	1625	13	ADX60490	Adx60490 Plant ful	c 238	15.2	76.0	110000	13	ADV81204	Adv81204

239	15.2	76.0	117829	12	ADQ97319	Human can	Adq97319 Human can	c 312	14.4	72.0	121	6	ABK24722	Glyphosat
240	15.2	76.0	295772	12	ADQ97433	Human can	Adq97433 Human can	313	14.4	72.0	121	12	ADN43416	Mutant ce
c 241	15	75.0	241	24	ABQ09313	Oligonucl	Abq09313 Oligonucl	c 314	14.4	72.0	121	12	ADN43417	Mutant ce
242	15	75.0	24	6	ABQ09272	Oligonucl	Abq09272 Oligonucl	315	14.4	72.0	121	12	ADN43524	Mutant ce
243	15	75.0	24	6	ABQ02698	Oligonucl	Abq02698 Oligonucl	316	14.4	72.0	121	12	ADN43412	Mutant ce
244	15	75.0	1137	6	ABN69483	Streptoco	Abn69483 Streptoco	c 317	14.4	72.0	121	12	ADN43457	Mutant ce
245	15	75.0	1140	13	ADV853770	Streptoco	Adv853770 Streptoco	c 318	14.4	72.0	121	12	ADN43525	Mutant ce
246	15	75.0	2426	2	AA704542	Bacillus	Aat04542 Bacillus	c 319	14.4	72.0	121	12	ADN43597	Mutant ce
247	15	75.0	2426	2	AA727128	Strept-br	Aat27128 Strept-br	c 320	14.4	72.0	121	12	ADN43456	Mutant ce
c 248	15	75.0	12685	13	ADV87700	Streptoco	Adv87700 Streptoco	321	14.4	72.0	121	12	ADN43456	Mutant ce
c 249	15	75.0	12685	13	ADV78953	Streptoco	Adv78953 Streptoco	322	14.4	72.0	121	12	ADN43596	Mutant ce
250	15	75.0	110000	6	ABN71527_00	Streptoco	Abn71527 Streptoco	c 323	14.4	72.0	121	12	ADN43413	Mutant ce
251	15	75.0	110000	13	ADV81204_01	Streptoco	Adv81204 Streptoco	c 324	14.4	72.0	121	12	ADN434613	Mutant ce
252	14.8	74.0	60	13	ADS33973	Continuation (2 of	Adh10665 Alloiococ	325	14.4	72.0	627	4	AAH05995	Human CDN
253	14.8	74.0	390	9	ADH01663	Eucalyptu	Adh01663 Eucalyptu	326	14.4	72.0	627	4	AAH05995	Human CDN
c 254	14.8	74.0	397	9	ACH20720	Human adu	Adh20720 Human adu	327	14.4	72.0	452	4	AAH19576	Human bre
255	14.8	74.0	557	13	ADQ58536	Novel can	Adq58536 Novel can	328	14.4	72.0	452	4	AAH19576	Human bre
256	14.8	74.0	583	13	ADQ50089	Novel can	Adq50089 Novel can	c 329	14.4	72.0	534	4	AAH01745	Human rep
257	14.8	74.0	656	14	ADW82161	MAP3K9 ma	Adw82161 MAP3K9 ma	c 330	14.4	72.0	534	4	AAH01745	Human rep
c 258	14.8	74.0	698	4	AAH03196	Human CDN	Adh03196 Human CDN	c 331	14.4	72.0	621	13	ADO83776	Human tes
259	14.8	74.0	786	9	ADA30850	DNA encod	Ada30850 DNA encod	332	14.4	72.0	622	10	ACD92257	Human col
260	14.8	74.0	943	14	ABE67494	Rice geno	Aeb67494 Rice geno	333	14.4	72.0	631	5	ABV01084	Human pro
261	14.8	74.0	978	13	ADT47476	Bacterial	Adt47476 Bacterial	334	14.4	72.0	648	13	ADS59743	Bacterial
262	14.8	74.0	1026	13	ADT47475	Bacterial	Adt47475 Bacterial	335	14.4	72.0	648	13	ADS59743	Bacterial
263	14.8	74.0	1173	9	ADH10665	Alloiococ	Adh10665 Alloiococ	336	14.4	72.0	654	5	ABV10253	Human pro
c 264	14.8	74.0	1329	14	ADV98268	Partial s	Adv98268 Partial s	337	14.4	72.0	676	5	ABV40393	Human pro
c 265	14.8	74.0	1766	2	AAV40277	Rat equil	Aav40277 Rat equil	338	14.4	72.0	676	5	ABV31424	Human pro
c 266	14.8	74.0	1766	10	ADBS8642	Toxicity-	Adbs8642 Toxicity-	c 339	14.4	72.0	704	3	AAV15215	Trichoder
c 267	14.8	74.0	1766	10	ADBS3315	Primary r	Adbs3315 Primary r	c 340	14.4	72.0	704	13	ADU59256	Trichoder
c 268	14.8	74.0	1766	13	ADVA1445	Rat can	Adv1445 Rat can	c 341	14.4	72.0	704	13	ADZ97259	Trichoder
c 269	14.8	74.0	2075	4	AAH18687	Human CDN	Aah18687 Human CDN	342	14.4	72.0	755	5	AAH75159	Pseudomon
270	14.8	74.0	2118	10	ADG28830	Perennial	Adg28830 Perennial	c 343	14.4	72.0	990	11	ABD03685	Pseudomon
c 271	14.8	74.0	2250	10	ADF82215	Leukaemia	Adf82215 Leukaemia	344	14.4	72.0	1024	10	AB283851	Toxicolog
272	14.8	74.0	2445	13	ADR87167	Fusobacte	Adr87167 Fusobacte	c 345	14.4	72.0	1059	11	ABD03766	Pseudomon
c 273	14.8	74.0	2817	5	ASB69823	DNA encod	Asb69823 DNA encod	346	14.4	72.0	1107	11	ABD03943	Pseudomon
274	14.8	74.0	2978	3	AA967705	Reporter	Aaa967705 Reporter	347	14.4	72.0	1116	6	ABQ90118	Glutami
275	14.8	74.0	4017	5	AS949495	DNA encod	Aas949495 DNA encod	c 348	14.4	72.0	1122	14	ADW98672	Glutamine
c 276	14.8	74.0	4017	5	AS949495	DNA encod	Aas949495 DNA encod	c 349	14.4	72.0	1122	14	ADW98672	Glutamine
c 277	14.8	74.0	33963	10	ACN96164	Human GPC	Acn96164 Human GPC	350	14.4	72.0	1185	13	ADT48168	Bacterial
c 278	14.8	74.0	57561	11	ACN44600	Mouse gen	Acn44600 Mouse gen	c 351	14.4	72.0	1197	10	ADC36525	Weed cont
c 279	14.8	74.0	61635	14	AEA61195	Human DKF	Aea61195 Human DKF	c 352	14.4	72.0	1314	5	AAH67646	C glutami
c 280	14.8	74.0	61635	14	AEA61195	Human DKF	Aea61195 Human DKF	c 353	14.4	72.0	1330	4	AAV71918	Coryneb
281	14.8	74.0	79731	12	ADQ97640	Mouse can	Adq97640 Mouse can	c 354	14.4	72.0	1330	4	AAV72012	Coryneb
c 282	14.8	74.0	80815	13	ABD33381	Human can	Abd33381 Human can	c 355	14.4	72.0	1330	4	AAV71905	Coryneb
283	14.8	74.0	105413	12	ADI36512	Human kin	Adi36512 Human kin	c 356	14.4	72.0	1330	4	AAV71755	Coryneb
c 284	14.8	74.0	110000	9	ADBI2064_11	Continuation (12 o	Adbi2064 Continuation (12 o	c 357	14.4	72.0	1366	10	ADJ94843	Novel NOV
c 285	14.8	74.0	110000	11	ADM27081_04	Continuation (5 of	Adm27081 Continuation (5 of	c 358	14.4	72.0	1366	11	AE886671	Human glu
c 286	14.8	74.0	110000	11	ACN43984_2	Continuation (3 of	Acn43984 Continuation (3 of	c 359	14.4	72.0	1366	13	ADR24858	Breast ca
287	14.8	74.0	110000	14	AE835723_0	pneumo	Aeb35723 L. pneumo	360	14.4	72.0	1419	10	ADB75327	Prostate
c 288	14.8	74.0	122157	14	ADZ13040	Murine ca	Adz13040 Murine ca	361	14.4	72.0	1448	14	ABE65888	Rice geno
289	14.8	74.0	131885	14	AE839176	Human sof	Aeb39176 L. pneumo	362	14.4	72.0	1459	13	ADS50925	Bacterial
290	14.8	74.0	166181	12	ADQ20461	Human sof	Adq20461 Human sof	363	14.4	72.0	1467	5	AAH84414	DNA encod
291	14.8	74.0	166181	12	ADQ20461	Human sof	Adq20461 Human sof	364	14.4	72.0	1470	4	AAI58954	Human pol
292	14.8	74.0	167163	10	ADE82948	Human PVT	Aded82948 Human PVT	365	14.4	72.0	1470	5	ADQ99176	DNA encod
293	14.8	74.0	175378	14	ADV09445	Human ORP	Adv09445 Human ORP	366	14.4	72.0	1470	8	ADBA48936	Novel hum
c 294	14.8	74.0	290040	14	ADV16961	Human pro	Adv16961 Human pro	c 367	14.4	72.0	1479	8	ACA45930	Prokaryot
c 295	14.8	74.0	290040	14	ADP62049	Human ROC	Adp62049 Human ROC	c 368	14.4	72.0	1491	4	AAV71904	Coryneb
c 296	14.8	74.0	312477	12	ADP69744	Human ROC	Adp69744 Human ROC	c 369	14.4	72.0	1491	4	AAV71917	Coryneb
c 297	14.4	72.0	41	10	ACF79782	Maize ace	Acf79782 Maize ace	c 370	14.4	72.0	1491	4	AAV71754	Coryneb
298	14.4	72.0	41	10	ACF79780	Maize ace	Acf79780 Maize ace	c 371	14.4	72.0	1491	4	AAV72011	Coryneb
299	14.4	72.0	70	10	ADC36502	Weed cont	Adc36502 Weed cont	c 372	14.4	72.0	1491	4	AAH96077	C. glutam
300	14.4	72.0	96	6	ABL75702	Corn tass	Ab175702 Corn tass	c 373	14.4	72.0	1498	10	ADD13562	C. glutam
301	14.4	72.0	121	6	ABK24725	Glyphosat	Abk24725 Glyphosat	c 374	14.4	72.0	1635	13	ADS58038	Bacterial
c 302	14.4	72.0	121	6	ABK24922	Glyphosat	Abk24922 Glyphosat	375	14.4	72.0	1675	9	ADS57517	Human enz
303	14.4	72.0	121	6	ABK24721	Glyphosat	Abk24721 Glyphosat	376	14.4	72.0	1725	12	ADH35388	ENZM enco
c 304	14.4	72.0	121	6	ABK24834	Glyphosat	Abk24834 Glyphosat	377	14.4	72.0	1759	6	ABK78768	Bacillus
305	14.4	72.0	121	6	ABK24905	Glyphosat	Abk24905 Glyphosat	378	14.4	72.0	1797	10	ADC93746	E. faeciu
306	14.4	72.0	121	6	ABK24921	Glyphosat	Abk24921 Glyphosat	c 379	14.4	72.0	1803	11	ACL26462	Rice abio
307	14.4	72.0	121	6	ABK24765	Glyphosat	Abk24765 Glyphosat	380	14.4	72.0	1926	13	ADS45600	Bacterial
308	14.4	72.0	121	6	ABK24833	Glyphosat	Abk24833 Glyphosat	381	14.4	72.0	1969	2	AAQ34551	Herbicide
c 309	14.4	72.0	121	6	ABK24906	Glyphosat	Abk24906 Glyphosat	382	14.4	72.0	1969	2	AAV24025	ABAS clon
c 310	14.4	72.0	121	6	ABK24766	Glyphosat	Abk24766 Glyphosat	383	14.4	72.0	1969	6	ABS55707	DNA encod
c 311	14.4	72.0	121	6	ABK24726	Glyphosat	Abk24726 Glyphosat	384	14.4	72.0	2000	8	ADA71634	Rice gene



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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2470.77 Seconds  
(without alignments)  
378.725 Million cell updates/sec

Title: US-10-805-973-4

Perfect score: 20

Sequence: 1 gtgtgctatgatccgaag 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 41078325 segs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST:\*

1: gb\_est1:\*

2: gb\_est2:\*

3: gb\_est3:\*

4: gb\_est4:\*

5: gb\_est5:\*

6: gb\_est6:\*

7: gb\_est7:\*

8: gb\_est8:\*

9: gb\_est9:\*

10: gb\_est10:\*

11: gb\_est11:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.4	92.0	367	5	BQ762109 EBpi01.SQ
2	18.4	92.0	420	1	AJ475726 AJ475726
3	18.4	92.0	429	5	BQ762109 EBpi01.SQ
c 4	18.4	92.0	438	1	AJ475726 AJ475726
5	18.4	92.0	446	5	BQ762109 EBpi01.SQ
6	18.4	92.0	460	2	BQ762109 EBpi01.SQ
7	18.4	92.0	462	8	BQ762109 EBpi01.SQ
8	18.4	92.0	463	1	AJ475726 AJ475726
9	18.4	92.0	485	6	CA721426 wdk9n.pk0
c 10	18.4	92.0	492	6	CA721426 wdk9n.pk0
11	18.4	92.0	517	5	CA012924 HT06N21r
12	18.4	92.0	526	1	AJ610886 AJ610886
c 13	18.4	92.0	528	1	AJ610886 AJ610886
14	18.4	92.0	530	2	BE417248 MUG016.CO
15	18.4	92.0	536	6	CA735255 wpils.pk0
c 16	18.4	92.0	543	5	BQ985874 HF08007r
c 17	18.4	92.0	554	7	CK036599 342295rhc
c 18	18.4	92.0	559	8	CK102310 RECm3292
c 19	18.4	92.0	560	6	CA735255 wpils.pk0
c 20	18.4	92.0	568	5	CA001228 HSI18N04u
c 21	18.4	92.0	568	5	CA001528 HSI17M10u
c 22	18.4	92.0	593	3	BQ762109 EBpi01.SQ

CK040671	39485rhc	601	7	CK040671	18.4	92.0
CK037714	39537rhc	613	7	CK037714	18.4	92.0
BU989646	HF22F02r	614	5	BU989646	18.4	92.0
AV936190	AV936190	615	1	AV936190	18.4	92.0
CV057250	BNEL25f6	615	7	CV057250	18.4	92.0
CB56902	OSJNEC11M	617	6	CB56902	18.4	92.0
BJ468205	BJ468205	620	3	BJ468205	18.4	92.0
CV058653	BNEL3D12	623	7	CV058653	18.4	92.0
BG905270	TaLr1138E	664	2	BG905270	18.4	92.0
BJ296872	BJ296872	670	3	BJ296872	18.4	92.0
BJ465087	BJ465087	672	3	BJ465087	18.4	92.0
DN179983	HO28K09S	674	8	DN179983	18.4	92.0
AV945607	AV945607	678	1	AV945607	18.4	92.0
BN137990	WHE0479 A	696	3	BN137990	18.4	92.0
DN186674	HO28K09W	700	8	DN186674	18.4	92.0
AU162002	AU162002	706	1	AU162002	18.4	92.0
CB630252	OSIIEB07B	708	6	CB630252	18.4	92.0
CD453275	WHE1817-1	721	6	CD453275	18.4	92.0
BJ220643	BJ220643	727	3	BJ220643	18.4	92.0
CB683493	OSJNEF11P	816	6	CB683493	18.4	92.0
CZ671547	OM_Ba022	855	10	CZ671547	18.4	92.0
CK155817	FGA503668	879	7	CK155817	18.4	92.0
CK156269	FGA503720	879	7	CK156269	18.4	92.0
CK167615	FGA505201	1149	7	CK167615	18.4	92.0
CK167307	FGA505163	1160	7	CK167307	18.4	92.0
CK168204	FGA505270	1198	7	CK168204	18.4	92.0
CL967368	OBIFCC039	1935	10	CL967368	18.4	92.0
AV934678	AV934678	273	1	AV934678	18.4	92.0
CZ015728	CH240_512	344	10	CZ015728	18.4	92.0
CA703794	wk1c.BK0	396	6	CA703794	18.4	92.0
AU089907	AU089907	443	1	AU089907	18.4	92.0
CA380041	659258 NC	605	6	CA380041	18.4	92.0
BX299129	BX299129	629	5	BX299129	18.4	92.0
BX299130	BX299130	630	5	BX299130	18.4	92.0
CA350697	621554 NC	672	6	CA350697	18.4	92.0
CA344872	675353 NC	683	6	CA344872	18.4	92.0
BX321023	BX321023	689	5	BX321023	18.4	92.0
CR369478	CR369478	717	7	CR369478	18.4	92.0
BX867147	BX867147	732	5	BX867147	18.4	92.0
CK723145	1330518 N	734	5	CK723145	18.4	92.0
BX321024	BX321024	739	5	BX321024	18.4	92.0
DN738638	CNB59-G08	1178	8	DN738638	18.4	92.0
DN731149	CNB56-H08	1217	8	DN731149	18.4	92.0
DN738639	CNB59-G08	1315	8	DN738639	18.4	92.0
DN731150	CNB56-H08	1346	8	DN731150	18.4	92.0
BQ910219	QHA13119	792	5	BQ910219	18.4	92.0
BY300574	BY300574	364	5	BY300574	18.4	92.0
CE571246	tigr-988-	386	10	CE571246	18.4	92.0
CA820002	HRO4409_G	570	7	CA820002	18.4	92.0
AY915222	Sch18t08o	576	4	AY915222	18.4	92.0
CV741292	SJAL_032	576	7	CV741292	18.4	92.0
CV741365	SJAL_032	576	7	CV741365	18.4	92.0
AT004936	AT004936	582	1	AT004936	18.4	92.0
AG917408	Drosoph11	588	10	AG917408	18.4	92.0
CF742855	U1-M-H80-	591	6	CF742855	18.4	92.0
CN010201	WHE3867 H	613	7	CN010201	18.4	92.0
CO381349	FRA0878 S	624	7	CO381349	18.4	92.0
CA215664	SCRAD114	653	6	CA215664	18.4	92.0
DN199584	USDA-PP 1	672	8	DN199584	18.4	92.0
CK264732	FMS00-006	676	8	CK264732	18.4	92.0
BY756143	BY756143	701	5	BY756143	18.4	92.0
CA074490	SCZAM108	727	10	CA074490	18.4	92.0
CL748539	OR_Bba011	731	7	CL748539	18.4	92.0
CO024992	EST803376	731	7	CO024992	18.4	92.0
CA213596	SCOGS8114	766	6	CA213596	18.4	92.0
HN819919	HRO4407_H	780	7	HN819919	18.4	92.0
CZ694312	OC_Ba000	820	10	CZ694312	18.4	92.0
CL970277	OBIFCC041	843	10	CL970277	18.4	92.0
CV292554	aof01-5m8	898	7	CV292554	18.4	92.0



c 96	16.8	84.0	900	7	CN158761	CN158761 947573 MA	169	15.8	79.0	515	1	AV834751	AV834751 AV834751
c 97	16.8	84.0	910	7	CV2911176	CV2911176 aof01-7me	170	15.8	79.0	519	3	BJ201556	BJ201556 BJ201556
c 98	16.8	84.0	931	7	CV2900995	CV2900995 aof01-16m	171	15.8	79.0	522	9	AQ915065	AQ915065 nbe00051A
c 99	16.8	84.0	3525	4	AK047897	AK047897 Mus muscu	c 172	15.8	79.0	523	8	DR062316	DR062316 iql5d03.9
c 100	16.8	84.0	3585	4	AK050542	AK050542 Mus muscu	c 173	15.8	79.0	531	11	DE124137	DE124137 Oryzias 1
c 101	16.8	84.0	3999	4	BC019133	BC019133 Mus muscu	c 174	15.8	79.0	532	2	BF615603	BF615603 de83f06.x
c 102	16.8	84.0	4614	4	AK083696	AK083696 Mus muscu	c 175	15.8	79.0	533	6	CB090293	CB090293 gp37c06.g
c 103	16.4	82.0	226	10	BX891388	BX891388 Arabidops	c 176	15.8	79.0	536	10	CW460792	CW460792 fbb0001f2
c 104	16.4	82.0	306	10	EX891387	EX891387 Arabidops	c 177	15.8	79.0	543	3	BJ912919	BJ912919 BJ912919
c 105	16.4	82.0	323	9	CC456802	CC456802 SALK 1006	c 178	15.8	79.0	552	5	CB091437	CB091437 he92d02.g
c 106	16.4	82.0	394	11	CR404044	CR404044 Arabidops	c 179	15.8	79.0	553	5	EX490220	EX490220 DKF2p6861
c 107	16.4	82.0	412	8	H71252	H71252 yel12h12.g1	c 180	15.8	79.0	556	5	BQ595339	BQ595339 S015252-0
c 108	16.4	82.0	416	9	CC329951	CC329951 OGRAN36TV	c 181	15.8	79.0	557	3	BM438468	BM438468 IplYv0208
c 109	16.4	82.0	425	3	BP816087	BP816087 BP816087	c 182	15.8	79.0	563	9	AQ256852	AQ256852 nbx0016P
c 110	16.4	82.0	430	10	CG177440	CG177440 PUGW60TD	c 183	15.8	79.0	564	11	DE093096	DE093096 Oryzias 1
c 111	16.4	82.0	497	11	CR404043	CR404043 Arabidops	c 184	15.8	79.0	565	1	AA647312	AA647312 v891b007.r
c 112	16.4	82.0	498	10	CW455843	CW455843 fbb001f2	c 185	15.8	79.0	574	3	BJ490188	BJ490188 BJ490188
c 113	16.4	82.0	526	6	CA646258	CA646258 wre1n.pk0	c 186	15.8	79.0	576	6	CB089581	CB089581 9p26a10.g
c 114	16.4	82.0	615	10	CL384099	CL384099 RPCI44.32	c 187	15.8	79.0	576	6	CD629738	CD629738 56085666J
c 115	16.4	82.0	617	9	AZ643157	AZ643157 LM05068T0	c 188	15.8	79.0	576	8	DN163186	DN163186 SGP269166
c 116	16.4	82.0	632	7	CO016307	CO016307 EST786689	c 189	15.8	79.0	579	7	CN308409	CN308409 170005328
c 117	16.4	82.0	649	10	CW456478	CW456478 fbb001f2	c 190	15.8	79.0	582	11	DE092242	DE092242 Oryzias 1
c 118	16.4	82.0	691	10	CW456479	CW456479 fbb001f2	c 191	15.8	79.0	583	7	CK883241	CK883241 SGPI167087
c 119	16.4	82.0	724	6	CF763424	CF763424 CES005965	c 192	15.8	79.0	584	10	CL766640	CL766640 OR_BBA013
c 120	16.4	82.0	753	5	BX918202	BX918202 BX918202	c 193	15.8	79.0	585	6	CB090890	CB090890 gy8Iq06.g
c 121	16.4	82.0	784	9	CC406482	CC406482 FUEKF63TD	c 194	15.8	79.0	597	6	CD056323	CD056323 H0110045
c 122	16.4	82.0	803	6	CF816898	CF816898 EST694280	c 195	15.8	79.0	597	11	DE073573	DE073573 Oryzias 1
c 123	16.4	82.0	810	10	CG096767	CG096767 FUIDV33TB	c 196	15.8	79.0	598	9	AZ868948	AZ868948 2M0180C23
c 124	16.4	82.0	896	10	CZ331036	CZ331036 ZMMBF0038	c 197	15.8	79.0	603	6	CA063583	CA063583 ssa1r9b50
c 125	16.4	82.0	923	7	CO020130	CO020130 EST816223	c 198	15.8	79.0	604	2	BF798192	BF798192 RC3-C1004
c 126	16.4	82.0	936	6	CG694348	CG694348 QGV9Q70TH	c 199	15.8	79.0	608	9	BH527432	BH527432 BOHLX15TR
c 127	16.4	82.0	1148	5	BUS12574	BUS12574 AGENCOURT	c 200	15.8	79.0	613	10	CW616383	CW616383 OA_ABA016
c 128	16.4	82.0	294	7	CV039261	CV039261 4136598 B	c 201	15.8	79.0	620	3	BJ608788	BJ608788 BJ608788
c 129	16.8	80.0	507	1	AW202598	AW202598 f1j9d06.y	c 202	15.8	79.0	622	10	CL811872	CL811872 OR_CBA002
c 130	16.8	80.0	521	3	BI813072	BI813072 I003G07 O	c 203	15.8	79.0	623	10	CL721404	CL721404 OR_BBA004
c 131	16.8	80.0	609	1	AU056647	AU056647 AU056647	c 204	15.8	79.0	624	1	AL664716	AL664716 AL664716
c 132	16.8	80.0	717	10	CZ134481	CZ134481 OA_BBA002	c 205	15.8	79.0	629	11	DE083091	DE083091 Oryzias 1
c 133	16.8	80.0	714	10	CL838248	CL838248 OR_CBA006	c 206	15.8	79.0	631	3	BJ886471	BJ886471 BJ886471
c 134	16.8	80.0	744	7	CO123350	CO123350 GR_Eb05C	c 207	15.8	79.0	631	11	CR865369	CR865369 Sub scrof
c 135	15.8	79.0	239	6	CB089499	CB089499 gp24e05.g	c 208	15.8	79.0	631	11	DE064869	DE064869 Oryzias 1
c 136	15.8	79.0	259	8	DR109369	DR109369 81847.127	c 209	15.8	79.0	632	3	BJ527940	BJ527940 BJ527940
c 137	15.8	79.0	269	1	AA211329	AA211329 2p44g05.r	c 210	15.8	79.0	637	11	DE056944	DE056944 Oryzias 1
c 138	15.8	79.0	313	7	CK125179	CK125179 BES182410	c 211	15.8	79.0	638	3	BQ196324	BQ196324 UI-R-DQ1-
c 139	15.8	79.0	328	2	BF061906	BF061906 7k68g05.x	c 212	15.8	79.0	641	6	CD629719	CD629719 56028535H
c 140	15.8	79.0	341	5	CA049658	CA049658 ssa1kspb0	c 213	15.8	79.0	641	6	CA379591	CA379591 658711 NC
c 141	15.8	79.0	343	6	CB089767	CB089767 2p28e09.g	c 214	15.8	79.0	644	11	DE088631	DE088631 Oryzias 1
c 142	15.8	79.0	343	10	CL787922	CL787922 OR_BBA010	c 215	15.8	79.0	649	3	BJ498459	BJ498459 BJ498459
c 143	15.8	79.0	345	9	AZ134614	AZ134614 OSJNBb011	c 216	15.8	79.0	649	8	CX257193	CX257193 1310221 N
c 144	15.8	79.0	361	8	DR063138	DR063138 iq26b05.g	c 217	15.8	79.0	650	6	CD825134	CD825134 BN25.059N
c 145	15.8	79.0	369	9	AQ080676	AQ080676 CIT-HSP-2	c 218	15.8	79.0	651	1	AU177188	AU177188 AU177188
c 146	15.8	79.0	373	11	DE045875	DE045875 Oryzias 1	c 219	15.8	79.0	652	10	CW478716	CW478716 fbb0001f2
c 147	15.8	79.0	375	5	BQ906558	BQ906558 M007G12 O	c 220	15.8	79.0	652	11	DE084319	DE084319 Oryzias 1
c 148	15.8	79.0	393	10	CW419818	CW419818 fbb0001f1	c 221	15.8	79.0	655	8	CX662709	CX662709 Sa_nx0.65
c 149	15.8	79.0	401	1	AJ663673	AJ663673 AJ663673	c 222	15.8	79.0	658	3	BJ505394	BJ505394 BJ505394
c 150	15.8	79.0	416	1	AA611245	AA611245 vn44h10.r	c 223	15.8	79.0	660	6	CD629740	CD629740 56085690J
c 151	15.8	79.0	425	6	CB989649	CB989649 AMGNNUC:M	c 224	15.8	79.0	663	11	DE055081	DE055081 Oryzias 1
c 152	15.8	79.0	426	7	CO947954	CO947954 UNC-P8mm3	c 225	15.8	79.0	665	10	CW221795	CW221795 104_657_1
c 153	15.8	79.0	441	10	CL858436	CL858436 OR_CBA008	c 226	15.8	79.0	665	10	CW212795	CW212795 104_657_1
c 154	15.8	79.0	447	9	AZ132666	AZ132666 OSJNBb010	c 227	15.8	79.0	666	11	DE076424	DE076424 Oryzias 1
c 155	15.8	79.0	457	6	CB089667	CB089667 gp27b10.g	c 228	15.8	79.0	668	5	BQ466022	BQ466022 HT01F17T
c 156	15.8	79.0	458	1	A1156158	A1156158 ue09g10.r	c 229	15.8	79.0	670	3	BJ499846	BJ499846 BJ499846
c 157	15.8	79.0	460	3	BJ002236	BJ002236 BJ002236	c 230	15.8	79.0	670	3	BJ908124	BJ908124 BJ908124
c 158	15.8	79.0	471	10	CL718675	CL718675 OR_BBA004	c 231	15.8	79.0	677	11	DE083544	DE083544 Oryzias 1
c 159	15.8	79.0	472	1	AM100385	AM100385 sd27a02.y	c 232	15.8	79.0	677	11	DE083544	DE083544 Oryzias 1
c 160	15.8	79.0	477	1	AA753300	AA753300 97B50346	c 233	15.8	79.0	682	8	CV987537	CV987537 Ipc03Fr1.1
c 161	15.8	79.0	486	1	AW099609	AW099609 sd28f03.y	c 234	15.8	79.0	685	10	CL627828	CL627828 OR_BBA002
c 162	15.8	79.0	493	10	CL722169	CL722169 OR_BBA005	c 235	15.8	79.0	685	9	AQ795970	AQ795970 nbx00058L
c 163	15.8	79.0	495	9	BH260881	BH260881 CH230-90H	c 236	15.8	79.0	687	2	BE379575	BE379575 601159304
c 164	15.8	79.0	500	2	BG726944	BG726944 sae29b10.	c 237	15.8	79.0	689	10	CL154116	CL154116 104_339_1
c 165	15.8	79.0	505	4	BE915112	BE915112 Schlstoob	c 238	15.8	79.0	691	6	CD629736	CD629736 56085574J
c 166	15.8	79.0	507	2	BE346393	BE346393 sp25a09.y	c 239	15.8	79.0	692	10	CW432637	CW432637 fbb0001f1
c 167	15.8	79.0	510	1	AI483966	AI483966 EST249837	c 240	15.8	79.0	697	3	BP135063	BP135063 BP135063
c 168	15.8	79.0	513	5	BU712543	BU712543 SJAABBG05	c 241	15.8	79.0				

242	15.8	79.0	700	9	AZ133359	AZ132359 OSUNBB006	315	15.8	79.0	972	10	CL061435	CL061435
243	15.8	79.0	704	5	BX58799	BX58799 BX58799	C 316	15.8	79.0	1034	5	BU541692	BU541692
244	15.8	79.0	716	7	CO097101	CO097101 GR_Ea20M	C 317	15.8	79.0	1038	10	CZ389177	CZ389177
245	15.8	79.0	720	10	CL753408	CL753408 OR_BBa012	C 318	15.8	79.0	1129	8	DN707698	DN707698
246	15.8	79.0	720	10	CL828056	CL828056 OR_CBa004	C 319	15.8	79.0	1216	3	BF383326	BF383326
247	15.8	79.0	726	10	CL759571	CL759571 OR_BBa014	C 320	15.8	79.0	1300	3	BM909167	BM909167
248	15.8	79.0	733	10	AG175645	AG175645 Pan trogl	C 321	15.8	79.0	1325	10	AJ860722	AJ860722
249	15.8	79.0	735	10	CL724983	CL724983 OR_BBa005	C 322	15.8	79.0	1380	10	CL640991	CL640991
250	15.8	79.0	739	10	CL762065	CL762065 OR_BBa013	C 323	15.8	79.0	2393	10	AY420447	AY420447
251	15.8	79.0	743	10	CL713070	CL713070 OR_BBa003	C 324	15.8	79.0	2393	10	AY420448	AY420448
252	15.8	79.0	744	10	AG364365	AG364365 Mus muscu	C 325	15.4	77.0	215	9	AZ925170	AZ925170
253	15.8	79.0	746	10	CL796730	CL796730 OR_CBa000	C 326	15.4	77.0	328	1	AV610929	AV610929
254	15.8	79.0	747	10	CL840578	CL840578 OR_CBa006	C 327	15.4	77.0	370	6	CF181337	CF181337
255	15.8	79.0	749	3	BJ665990	BJ665990 BJ665990	C 328	15.4	77.0	370	6	CF359894	CF359894
256	15.8	79.0	750	10	CL916765	CL916765 OA_ABa001	C 329	15.4	77.0	384	2	BB651494	BB651494
257	15.8	79.0	751	10	CL766528	CL766528 OR_BBa013	C 330	15.4	77.0	385	9	AQ138332	AQ138332
258	15.8	79.0	754	10	CL718855	CL718855 OR_BBa004	C 331	15.4	77.0	435	2	BF073865	BF073865
259	15.8	79.0	764	9	AZ127985	AZ127985 OSUNBB006	C 332	15.4	77.0	437	2	BE509757	BE509757
260	15.8	79.0	767	10	CL813633	CL813633 OR_CBa002	C 333	15.4	77.0	440	10	CW630418	CW630418
261	15.8	79.0	769	9	BH727541	BH727541 BOMNLO77R	C 334	15.4	77.0	460	5	BQ908062	BQ908062
262	15.8	79.0	775	6	CD827161	CD827161 BN25.0661	C 335	15.4	77.0	481	1	AA858110	AA858110
263	15.8	79.0	779	10	CL748251	CL748251 OR_BBa011	C 336	15.4	77.0	482	5	BU989965	BU989965
264	15.8	79.0	781	10	CW641685	CW641685 OR_ABa017	C 337	15.4	77.0	488	3	BP048815	BP048815
265	15.8	79.0	782	10	CL730957	CL730957 OR_BBa006	C 338	15.4	77.0	514	2	BI065893	BI065893
266	15.8	79.0	784	8	DT111088	DT111088 JGI_ANN01	C 339	15.4	77.0	525	8	DR599473	DR599473
267	15.8	79.0	786	9	AQ871349	AQ871349 nbe50043G	C 340	15.4	77.0	526	9	AQ797709	AQ797709
268	15.8	79.0	788	9	CQ908104	CQ908104 t404i15ba	C 341	15.4	77.0	530	5	BQ758603	BQ758603
269	15.8	79.0	788	9	CL842006	CL842006 OR_CBa007	C 342	15.4	77.0	537	6	CA613955	CA613955
270	15.8	79.0	798	10	CL842006	CL842006 OR_CBa007	C 343	15.4	77.0	543	10	CZ911651	CZ911651
271	15.8	79.0	800	7	CO081235	CO081235 GR_Ea45C	C 344	15.4	77.0	571	8	DR623627	DR623627
272	15.8	79.0	800	10	CL760494	CL760494 OR_BBa012	C 345	15.4	77.0	590	9	CE196216	CE196216
273	15.8	79.0	805	10	CG072057	CG072057 PUKBJ87TD	C 346	15.4	77.0	600	3	BI629312	BI629312
274	15.8	79.0	812	10	CL736839	CL736839 OR_BBa007	C 347	15.4	77.0	633	6	CP541553	CP541553
275	15.8	79.0	816	1	AJ568775	AJ568775 AJ568775	C 348	15.4	77.0	641	6	CA781113	CA781113
276	15.8	79.0	816	10	CW706257	CW706257 AIAA-aab4	C 349	15.4	77.0	655	10	AG111843	AG111843
277	15.8	79.0	816	10	CL753407	CL753407 OR_BBa012	C 350	15.4	77.0	660	8	DR598580	DR598580
278	15.8	79.0	819	10	CW620174	CW620174 OA_ABa016	C 351	15.4	77.0	670	10	CZ911679	CZ911679
279	15.8	79.0	820	9	CG632992	CG632992 OGKAZ85TH	C 352	15.4	77.0	672	10	AG047791	AG047791
280	15.8	79.0	821	2	BG500146	BG500146 602546870	C 353	15.4	77.0	676	6	CF701393	CF701393
281	15.8	79.0	821	8	DN872102	DN872102 nad17h02.	C 354	15.4	77.0	682	6	CA381176	CA381176
282	15.8	79.0	827	10	CL747653	CL747653 OR_BBa011	C 355	15.4	77.0	686	1	AI125632	AI125632
283	15.8	79.0	833	10	CZ221869	CZ221869 AIAA-aad5	C 356	15.4	77.0	688	6	CF702472	CF702472
284	15.8	79.0	840	10	CZ216422	CZ216422 AIAA-aac7	C 357	15.4	77.0	696	10	CL612238	CL612238
285	15.8	79.0	841	10	CW978426	CW978426 AIAA-aac3	C 358	15.4	77.0	699	10	CL612292	CL612292
286	15.8	79.0	843	7	CO546723	CO546723 LVEST3049	C 359	15.4	77.0	706	7	CV053960	CV053960
287	15.8	79.0	848	6	CA454118	CA454118 AGENCOURT	C 360	15.4	77.0	711	7	CK447168	CK447168
288	15.8	79.0	849	10	AG833244	AG833244 Oryza sat	C 361	15.4	77.0	717	10	BX232773	BX232773
289	15.8	79.0	849	10	CL717610	CL717610 OR_BBa004	C 362	15.4	77.0	719	7	CF839148	CF839148
290	15.8	79.0	851	7	CO486468	CO486468 GQ02011.T	C 363	15.4	77.0	729	10	BX983057	BX983057
291	15.8	79.0	855	7	CO124562	CO124562 GR_EB07I	C 364	15.4	77.0	736	9	AZ762810	AZ762810
292	15.8	79.0	862	10	CL773795	CL773795 OR_BBa008	C 365	15.4	77.0	744	10	AG574081	AG574081
293	15.8	79.0	863	10	DU005089	DU005089 300669 To	C 366	15.4	77.0	749	10	AG546169	AG546169
294	15.8	79.0	867	7	CK451569	CK451569 904758 MA	C 367	15.4	77.0	749	10	CE301888	CE301888
295	15.8	79.0	868	9	CC633000	CC633000 OGKAZ85TV	C 368	15.4	77.0	760	3	BJ783636	BJ783636
296	15.8	79.0	879	7	CK464292	CK464292 935261 MA	C 369	15.4	77.0	766	11	CR215355	CR215355
297	15.8	79.0	880	10	CG344229	CG344229 OGKCM59TH	C 370	15.4	77.0	772	6	CF709896	CF709896
298	15.8	79.0	883	8	DR952881	DR952881 EST114442	C 371	15.4	77.0	774	3	BJ815391	BJ815391
299	15.8	79.0	887	3	BM043113	BM043113 603619261	C 372	15.4	77.0	774	7	CO561026	CO561026
300	15.8	79.0	887	8	DR928410	DR928410 EST111994	C 373	15.4	77.0	776	11	CR097557	CR097557
301	15.8	79.0	889	7	CO074062	CO074062 GR_Ea33P	C 374	15.4	77.0	780	7	CO425720	CO425720
302	15.8	79.0	889	10	AG889407	AG889407 Oryza sat	C 375	15.4	77.0	800	2	BG366284	BG366284
303	15.8	79.0	896	5	BU542522	BU542522 AGENCOURT	C 376	15.4	77.0	805	9	AZ190120	AZ190120
304	15.8	79.0	907	10	AG869318	AG869318 Oryza sat	C 377	15.4	77.0	806	8	DR649474	DR649474
305	15.8	79.0	913	7	CK408358	CK408358 AUF_Iflvz	C 378	15.4	77.0	812	5	EX075569	EX075569
306	15.8	79.0	915	7	CO107527	CO107527 GR_EB003	C 379	15.4	77.0	815	9	CC635372	CC635372
307	15.8	79.0	940	10	CG344308	CG344308 OGKCM59TV	C 380	15.4	77.0	817	10	CG238420	CG238420
308	15.8	79.0	946	7	CK421618	CK421618 AUF_IPSpn	C 381	15.4	77.0	831	2	BG416954	BG416954
309	15.8	79.0	949	9	CC710998	CC710998 OGMD077TM	C 382	15.4	77.0	831	6	CF714210	CF714210
310	15.8	79.0	954	10	AG862103	AG862103 Oryza sat	C 383	15.4	77.0	834	7	CO922668	CO922668
311	15.8	79.0	959	9	CC074283	CC074283 CSU-K33r.	C 384	15.4	77.0	840	8	DR782114	DR782114
312	15.8	79.0	962	10	CZ986975	CZ986975 201020 To	C 385	15.4	77.0	846	9	CC635367	CC635367
313	15.8	79.0	963	2	BF184433	BF184433 601844370	C 386	15.4	77.0	892	9	BZ577223	BZ577223
314	15.8	79.0	968	10	CG072053	CG072053 PUKBJ87TB	C 387	15.4	77.0	895	2	BG109855	BG109855
315	15.8	79.0											
316	15.8	79.0											
317	15.8	79.0											
318	15.8	79.0											
319	15.8	79.0											
320	15.8	79.0											
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335	15.8	79.0											
336	15.8	79.0											
337	15.8	79.0											
338	15.8	79.0											
339	15.8	79.0											
340	15.8	79.0					</						

388	15.4	77.0	904	9	CC375164	PUHQ34TD	CC375164	PUHQ34TD	461	15.2	76.0	374	5	BY608492	BY608492
389	15.4	77.0	914	8	DR664497	EST105461	DR664497	EST105461	C 462	15.2	76.0	377	3	BJ674138	BJ674138
C 390	15.4	77.0	934	10	CC238429	OGWGH18TV	CC238429	OGWGH18TV	C 463	15.2	76.0	380	6	CD992175	CD992175
C 391	15.4	77.0	944	8	DN568131	90201907	DN568131	90201907	C 464	15.2	76.0	382	5	BY608207	BY608207
C 392	15.4	77.0	961	9	CC375160	PUHQ34TB	CC375160	PUHQ34TB	C 465	15.2	76.0	383	5	B0828530	B0828530
C 393	15.4	77.0	1030	9	CC283236	CH261-100	CC283236	CH261-100	C 466	15.2	76.0	387	2	BB000568	BB000568
C 394	15.4	77.0	1036	11	CNS035JS	AL228817 Tetraodon	AL228817	Tetraodon	C 467	15.2	76.0	388	7	CV236126	CV236126
395	15.4	77.0	1164	3	B0278079	AGENCOURT	B0278079	AGENCOURT	C 468	15.2	76.0	389	2	BG241762	BG241762
C 396	15.4	77.0	1244	8	DN689564	CGX65-C12	DN689564	CGX65-C12	C 469	15.2	76.0	390	1	AT16424	AT16424
C 397	15.4	77.0	1262	2	BG173641	BG173641	BG173641	BG173641	C 470	15.2	76.0	390	1	AJ537025	AJ537025
C 398	15.4	77.0	1277	8	DN698722	CLJ19-C06	DN698722	CLJ19-C06	C 471	15.2	76.0	390	2	BB685579	BB685579
C 399	15.4	77.0	1382	8	DN692652	CGX83-DO4	DN692652	CGX83-DO4	C 472	15.2	76.0	393	6	CB606069	CB606069
C 400	15.4	77.0	2404	4	AK088187	Mus muscu	AK088187	Mus muscu	C 473	15.2	76.0	396	2	BE429275	BE429275
C 401	15.4	77.0	4524	2	AK048959	Mus muscu	AK048959	Mus muscu	C 474	15.2	76.0	397	1	AI942110	AI942110
C 402	15.2	76.0	154	4	B1125879	I067P30P	B1125879	I067P30P	C 475	15.2	76.0	397	3	BP657623	BP657623
C 403	15.2	76.0	165	6	CF046041	QCK20C04	CF046041	QCK20C04	C 476	15.2	76.0	398	1	AM054309	AM054309
C 404	15.2	76.0	166	3	CF047097	QCK4C04.Y	CF047097	QCK4C04.Y	C 477	15.2	76.0	399	3	BJ685672	BJ685672
C 405	15.2	76.0	177	9	CC030911	3591.1.12	CC030911	3591.1.12	C 478	15.2	76.0	399	6	CF051338	CF051338
C 406	15.2	76.0	195	2	BB289752	BB289752	BB289752	BB289752	C 479	15.2	76.0	401	5	BY645428	BY645428
C 407	15.2	76.0	203	5	BX632831	BX632831	BX632831	BX632831	C 480	15.2	76.0	402	5	BY636748	BY636748
C 408	15.2	76.0	208	4	AK180859	Mus muscu	AK180859	Mus muscu	C 481	15.2	76.0	403	2	BG235676	BG235676
C 409	15.2	76.0	212	2	BG739527	EM1_B2_A0	BG739527	EM1_B2_A0	C 482	15.2	76.0	403	6	CD572887	CD572887
C 410	15.2	76.0	214	2	BB573488	BB573488	BB573488	BB573488	C 483	15.2	76.0	404	3	BJ703578	BJ703578
C 411	15.2	76.0	225	1	AV017001	AV017001	AV017001	AV017001	C 484	15.2	76.0	404	3	BP602514	BP602514
C 412	15.2	76.0	235	1	AI642684	v02f11.x	AI642684	v02f11.x	C 485	15.2	76.0	406	1	AM165578	AM165578
C 413	15.2	76.0	238	2	BG561229	EtESTed82	BG561229	EtESTed82	C 486	15.2	76.0	406	2	BG516803	BG516803
C 414	15.2	76.0	241	2	BF467076	UI-N-CG0P	BF467076	UI-N-CG0P	C 487	15.2	76.0	409	1	AV001452	AV001452
C 415	15.2	76.0	244	1	AV336210	AV336210	AV336210	AV336210	C 488	15.2	76.0	409	3	BJ685168	BJ685168
C 416	15.2	76.0	249	5	B0829736	B0829736	B0829736	B0829736	C 489	15.2	76.0	411	2	BG983695	BG983695
C 417	15.2	76.0	255	2	BG074207	H3132B07-	BG074207	H3132B07-	C 490	15.2	76.0	412	1	AV423964	AV423964
C 418	15.2	76.0	259	10	CL276427	G9a1_93b_-	CL276427	G9a1_93b_-	C 491	15.2	76.0	413	1	AI317236	AI317236
C 419	15.2	76.0	268	1	AV146261	AV146261	AV146261	AV146261	C 492	15.2	76.0	414	8	W98700	W98700
C 420	15.2	76.0	268	3	BM989758	UI-N-DJ0-	BM989758	UI-N-DJ0-	C 493	15.2	76.0	414	10	CE477297	CE477297
C 421	15.2	76.0	271	1	BB114929	BB114929	BB114929	BB114929	C 494	15.2	76.0	415	7	BN580930	BN580930
C 422	15.2	76.0	272	1	AV010718	AV010718	AV010718	AV010718	C 495	15.2	76.0	417	5	BY585185	BY585185
C 423	15.2	76.0	273	9	CC958685	BOIEE61TF	CC958685	BOIEE61TF	C 496	15.2	76.0	418	3	BJ696786	BJ696786
C 424	15.2	76.0	275	1	AV013386	AV013386	AV013386	AV013386	C 497	15.2	76.0	418	5	BY417582	BY417582
C 425	15.2	76.0	275	1	AV215641	AV215641	AV215641	AV215641	C 498	15.2	76.0	418	6	CA399158	CA399158
C 426	15.2	76.0	279	2	BB309019	BB309019	BB309019	BB309019	C 499	15.2	76.0	419	5	BY433129	BY433129
C 427	15.2	76.0	282	2	BB359932	BB359932	BB359932	BB359932	C 500	15.2	76.0	419	5	BY433750	BY433750
C 428	15.2	76.0	285	2	BE850045	BE850045	BE850045	BE850045							
C 429	15.2	76.0	286	1	AV020374	AV020374	AV020374	AV020374							
C 430	15.2	76.0	287	10	AG265632	Lotus cor	AG265632	Lotus cor							
C 431	15.2	76.0	288	8	DN238326	MUC4LH100	DN238326	MUC4LH100							
C 432	15.2	76.0	289	7	CR514200	CR514200	CR514200	CR514200							
C 433	15.2	76.0	290	1	AV148868	AV148868	AV148868	AV148868							
C 434	15.2	76.0	290	1	BB194091	BB194091	BB194091	BB194091							
C 435	15.2	76.0	292	2	BE981646	UI-N-CG0P	BE981646	UI-N-CG0P							
C 436	15.2	76.0	292	1	AM552575	L0214E04-	AM552575	L0214E04-							
C 437	15.2	76.0	293	3	BM942510	UI-N-CG0P	BM942510	UI-N-CG0P							
C 438	15.2	76.0	297	9	AQ055662	HS_5386_A	AQ055662	HS_5386_A							
C 439	15.2	76.0	299	1	BB032145	BB032145	BB032145	BB032145							
C 440	15.2	76.0	301	1	BB188185	BB188185	BB188185	BB188185							
C 441	15.2	76.0	301	2	BB532374	BB532374	BB532374	BB532374							
C 442	15.2	76.0	303	1	AV116863	AV116863	AV116863	AV116863							
C 443	15.2	76.0	307	2	BB724020	BB724020	BB724020	BB724020							
C 444	15.2	76.0	309	6	CB606513	AMGNNUC:H	CB606513	AMGNNUC:H							
C 445	15.2	76.0	318	2	BG413166	EtESTed17	BG413166	EtESTed17							
C 446	15.2	76.0	323	2	BB504656	BB504656	BB504656	BB504656							
C 447	15.2	76.0	325	2	BB530599	BB530599	BB530599	BB530599							
C 448	15.2	76.0	325	2	BB531999	BB531999	BB531999	BB531999							
C 449	15.2	76.0	325	6	CD548951	B0294F06-	CD548951	B0294F06-							
C 450	15.2	76.0	336	1	AM522513	UI-R-B00-	AM522513	UI-R-B00-							
C 451	15.2	76.0	337	1	BB119211	BB119211	BB119211	BB119211							
C 452	15.2	76.0	337	3	BP766045	BP766045	BP766045	BP766045							
C 453	15.2	76.0	338	3	BQ032367	UI-1-CF0-	BQ032367	UI-1-CF0-							
C 454	15.2	76.0	345	1	BB531312	BB531312	BB531312	BB531312							
C 455	15.2	76.0	345	1	AL822543	AL822543	AL822543	AL822543							
C 456	15.2	76.0	347	2	BI286548	UI-R-CT08	BI286548	UI-R-CT08							
C 457	15.2	76.0	348	6	CA678041	wlm12.pk0	CA678041	wlm12.pk0							
C 458	15.2	76.0	353	7	CO868106	Mdfrt3040	CO868106	Mdfrt3040							
C 459	15.2	76.0	359	2	BEG38205	WS1_96.G0	BEG38205	WS1_96.G0							
C 460	15.2	76.0	368	3	BM328450	PIC1_29_D	BM328450	PIC1_29_D							

## ALIGNMENTS

RESULT 1	367 bp	linear	EST 26-JUL-2002
BO762109	EBpi01 SQ005 G24 R pistil, 1 DPA, no treatment, cv Optic, EBpi01		
LOCUS	Hordeum vulgare subsp. vulgare		
DEFINITION	Hordeum vulgare subsp. vulgare		
ACCESSION	BO762109		
VERSION	BO762109.1		
KEYWORDS	EST		
SOURCE	Hordeum vulgare subsp. vulgare		
ORGANISM	Hordeum vulgare subsp. vulgare		
REFERENCE	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Poaceae;		
AUTHORS	Poideae; Triticeae; Hordeum.		
TITLE	Hedley, P., Liu, H., Caldwell, D., McCallum, N., Mudie, S., Cardie, L.,		
JOURNAL	Ramsay, L., Machray G., Marshall, D.P.M. and Waugh, R.		
COMMENT	Unpublished (2001)		
CONTACT	Development of Barley Transcriptome Resources		
GENOME	Genome Dynamics/Computational Biology		
SCOTTISH	Scottish Crop Research Institute		
INVERGOWRIE	Invergowrie, Dundee, DD2 5DA, Scotland, UK		
TEL	Tel: 00 44 1382 562731		
FAX	Fax: 00 44 1382 562426		
EMAIL	Email: est@scri.sari.ac.uk		
FEATURES	Location/Qualifiers		
source	1. .367		

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 69.1124 Seconds  
(without alignments)  
514.397 Million cell updates/sec

Title: US-10-805-973-4

Perfect score: 20

Sequence: 1 gtctgctatgatccgaag 20

Scoring table:

IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

Issued\_Patents\_NA.\*

1: /cgn2\_6/ptodata/1/ina/1\_COMB.seq.\*

2: /cgn2\_6/ptodata/1/ina/5\_COMB.seq.\*

3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq.\*

4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq.\*

5: /cgn2\_6/ptodata/1/ina/H\_COMB.seq.\*

6: /cgn2\_6/ptodata/1/ina/PCRUS\_COMB.seq.\*

7: /cgn2\_6/ptodata/1/ina/PP\_COMB.seq.\*

8: /cgn2\_6/ptodata/1/ina/RE\_COMB.seq.\*

9: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18.4	92.0	1986	3	US-10-258-842-14
2	18.4	92.0	1986	3	US-10-258-842-24
3	18.4	92.0	2301	3	US-10-258-842-2
4	17.4	87.0	182	3	US-10-258-842-10
5	17.4	87.0	182	3	US-10-258-842-12
6	17.4	87.0	188	3	US-10-258-842-13
7	17.4	87.0	208	3	US-10-258-842-9
8	17.4	87.0	208	3	US-10-258-842-11
9	17.4	87.0	528	3	US-10-258-842-16
10	17.4	87.0	1095	3	US-10-258-842-1
11	17.4	87.0	1985	3	US-10-258-842-20
12	17.4	87.0	1986	3	US-10-258-842-18
13	17.4	87.0	2279	3	US-10-258-842-4
14	16.8	84.0	507	3	US-09-105-567A-5
15	16.8	84.0	507	3	US-09-511-720-5
16	16.8	84.0	507	3	US-09-844-036A-5
17	16.8	84.0	1242	3	US-09-603-208A-173
18	16.4	82.0	35337	3	US-09-949-016-17249
19	15.8	79.0	1086	3	US-09-533-559-10
20	15.8	79.0	52457	3	US-09-949-016-12418
21	15.2	76.0	601	3	US-09-949-016-70809
22	15.2	76.0	1391	3	US-09-724-864-19
23	15.2	76.0	1969	2	US-07-737-851-2
24	15.2	76.0	1969	2	US-07-737-851-3

25	15.2	76.0	1969	2	US-07-894-062-2	Sequence 2, Appli
26	15.2	76.0	1969	2	US-07-894-062-3	Sequence 3, Appli
27	15.2	76.0	1969	2	US-09-096-562-2	Sequence 2, Appli
28	15.2	76.0	1969	3	US-09-096-562-3	Sequence 3, Appli
29	15.2	76.0	6504	3	US-09-487-558B-55	Sequence 55, Appli
30	15.2	76.0	88245	3	US-09-949-016-13855	Sequence 13855, A
31	15.2	76.0	4403765	3	US-09-103-840A-2	Sequence 2, Appli
32	15.2	76.0	4411529	3	US-09-103-840A-1	Sequence 1, Appli
33	15	75.0	2426	3	US-08-528-026C-3	Sequence 3, Appli
34	14.8	74.0	601	3	US-09-949-016-90110	Sequence 90110, A
35	14.8	74.0	785	3	US-09-328-352-2137	Sequence 2137, Ap
36	14.8	74.0	1005	3	US-09-248-796A-3142	Sequence 3142, Ap
37	14.8	74.0	1026	3	US-09-614-221A-358	Sequence 358, App
38	14.8	74.0	5919	3	US-09-221-017B-584	Sequence 584, App
39	14.8	74.0	6321	3	US-09-221-017B-311	Sequence 311, App
40	14.8	74.0	55841	3	US-09-949-016-16602	Sequence 16602, A
41	14.8	74.0	105413	3	US-10-427-923-3	Sequence 3, Appli
42	14.8	74.0	112219	3	US-09-949-016-12453	Sequence 12453, A
43	14.8	74.0	112222	3	US-09-949-016-14334	Sequence 14334, A
44	14.8	74.0	113186	3	US-09-949-016-17572	Sequence 17572, A
45	14.8	74.0	128470	3	US-09-949-016-13765	Sequence 13765, A
46	14.4	72.0	704	3	US-09-533-559-7738	Sequence 7738, Ap
47	14.4	72.0	990	3	US-09-252-991A-2289	Sequence 2289, Ap
48	14.4	72.0	1059	3	US-09-252-991A-2370	Sequence 2370, Ap
49	14.4	72.0	1107	3	US-09-252-991A-2547	Sequence 2547, Ap
50	14.4	72.0	1470	3	US-09-620-312D-846	Sequence 846, App
51	14.4	72.0	1797	3	US-09-107-532A-3373	Sequence 3373, Ap
52	14.4	72.0	1969	2	US-07-737-851-1	Sequence 1, Appli
53	14.4	72.0	1969	2	US-07-894-062-1	Sequence 1, Appli
54	14.4	72.0	1969	3	US-09-096-562-1	Sequence 1, Appli
55	14.4	72.0	2226	3	US-09-799-451-355	Sequence 355, App
56	14.4	72.0	2727	3	US-09-814-915A-36	Sequence 36, Appli
57	14.4	72.0	2813	3	US-09-949-016-2085	Sequence 2085, Ap
58	14.4	72.0	3541	3	US-09-585-645A-32	Sequence 32, Appli
59	14.4	72.0	12981	3	US-09-949-016-13827	Sequence 13827, A
60	14.4	72.0	117807	3	US-09-949-016-15525	Sequence 15525, A
61	14.2	71.0	25	3	US-09-396-196G-122165	Sequence 122165, A
62	14.2	71.0	147	3	US-09-902-540-8463	Sequence 8463, Ap
63	14.2	71.0	219	3	US-09-583-110-2167	Sequence 2167, Ap
64	14.2	71.0	426	2	US-08-470-179-193	Sequence 193, App
65	14.2	71.0	601	3	US-09-949-016-28440	Sequence 28440, A
66	14.2	71.0	601	3	US-09-949-016-132276	Sequence 132276, A
67	14.2	71.0	601	3	US-09-949-016-156931	Sequence 156931, A
68	14.2	71.0	601	3	US-09-949-016-175827	Sequence 175827, A
69	14.2	71.0	601	3	US-09-949-016-175828	Sequence 175828, A
70	14.2	71.0	601	3	US-09-949-016-185652	Sequence 185652, A
71	14.2	71.0	612	3	US-09-252-991A-10896	Sequence 10896, A
72	14.2	71.0	636	3	US-09-248-796A-2181	Sequence 2181, Ap
73	14.2	71.0	687	3	US-08-545-809A-34	Sequence 34, Appli
74	14.2	71.0	687	3	US-09-515-697-34	Sequence 34, Appli
75	14.2	71.0	729	3	US-09-270-767-1796	Sequence 1796, Ap
76	14.2	71.0	729	3	US-09-270-767-17078	Sequence 17078, A
77	14.2	71.0	786	3	US-09-134-000C-1561	Sequence 1561, Ap
78	14.2	71.0	799	3	US-09-640-211A-236	Sequence 236, App
79	14.2	71.0	828	3	US-09-489-039A-4618	Sequence 4618, Ap
80	14.2	71.0	876	3	US-09-270-767-7102	Sequence 7102, Ap
81	14.2	71.0	876	3	US-09-270-767-22384	Sequence 22384, A
82	14.2	71.0	1035	3	US-09-107-532A-3377	Sequence 3377, Ap
83	14.2	71.0	1082	3	US-09-583-110-2166	Sequence 2166, Ap
84	14.2	71.0	1111	3	US-09-774-528-387	Sequence 387, App
85	14.2	71.0	1111	3	US-10-120-988-387	Sequence 387, App
86	14.2	71.0	1111	3	US-09-583-110-1986	Sequence 1986, Ap
87	14.2	71.0	1140	3	US-09-107-433-884	Sequence 884, App
88	14.2	71.0	1212	3	US-09-134-000C-1099	Sequence 1099, Ap
89	14.2	71.0	1245	3	US-09-248-796A-317	Sequence 317, App
90	14.2	71.0	1296	3	US-09-107-532A-3425	Sequence 3425, Ap
91	14.2	71.0	1305	3	US-09-248-796A-1639	Sequence 1639, App
92	14.2	71.0	1387	3	US-09-902-540-256	Sequence 256, App
93	14.2	71.0	1387	3	US-09-902-540-6066	Sequence 6066, Ap
94	14.2	71.0	1725	3	US-09-489-039A-6229	Sequence 6229, Ap
95	14.2	71.0	1839	3	US-09-252-991A-10857	Sequence 10857, A
96	14.2	71.0	2127	3	US-09-252-991A-8192	Sequence 8192, Ap
97	14.2	71.0	2380	3	US-09-964-992A-4	Sequence 4, Appli

c 98	14.2	71.0	2874	3	US-09-252-991A-8112	Sequence 8112, App	171	13.8	69.0	1250	3	US-10-120-988-380	Sequence 380, App
c 99	14.2	71.0	3766	3	US-08-961-527-225	Sequence 225, App	172	13.8	69.0	1383	3	US-09-252-991A-11197	Sequence 11197, A
c 100	14.2	71.0	4320	2	US-08-472-534-4	Sequence 4, Appli	173	13.8	69.0	1489	3	US-09-270-767-15043	Sequence 15043, A
c 101	14.2	71.0	4959	3	US-09-949-016-12873	Sequence 12873, A	c 174	13.8	69.0	1509	4	US-09-605-703B-1691	Sequence 1691, App
c 102	14.2	71.0	4959	3	US-09-949-016-14850	Sequence 14850, A	c 175	13.8	69.0	1510	3	US-09-603-208A-257	Sequence 257, App
c 103	14.2	71.0	6730	3	US-08-956-171E-51	Sequence 51, Appl	c 176	13.8	69.0	1650	3	US-09-252-991A-8097	Sequence 8097, App
c 104	14.2	71.0	6730	3	US-08-781-986A-51	Sequence 51, Appl	c 177	13.8	69.0	1656	3	US-09-489-039A-5742	Sequence 5742, App
c 105	14.2	71.0	7012	3	US-09-902-540-890	Sequence 890, App	c 178	13.8	69.0	1749	3	US-09-252-991A-11055	Sequence 11055, A
c 106	14.2	71.0	7174	3	US-08-961-527-189	Sequence 189, App	c 179	13.8	69.0	2145	3	US-09-252-991A-8205	Sequence 8205, App
c 107	14.2	71.0	9069	3	US-09-949-016-15856	Sequence 15856, A	c 180	13.8	69.0	2311	3	US-09-774-528-35	Sequence 35, Appl
c 108	14.2	71.0	9461	3	US-09-221-017B-513	Sequence 513, App	c 181	13.8	69.0	2311	3	US-10-120-988-35	Sequence 35, Appl
c 109	14.2	71.0	13361	3	US-09-949-016-12478	Sequence 12478, A	c 182	13.8	69.0	2624	2	US-08-016-863-15	Sequence 15, Appl
c 110	14.2	71.0	13785	3	US-09-949-016-15631	Sequence 15631, A	c 183	13.8	69.0	2624	3	US-08-276-968A-15	Sequence 15, Appl
c 111	14.2	71.0	14342	3	US-09-902-540-1118	Sequence 1118, App	c 184	13.8	69.0	2724	3	US-09-602-777A-103	Sequence 103, App
c 112	14.2	71.0	19454	3	US-09-949-016-13532	Sequence 13532, A	c 185	13.8	69.0	2991	3	US-10-104-047-1527	Sequence 1527, App
c 113	14.2	71.0	26841	3	US-09-949-016-15893	Sequence 15893, A	c 186	13.8	69.0	3102	3	US-09-489-039A-6353	Sequence 6353, App
c 114	14.2	71.0	30365	3	US-09-825-414-1	Sequence 1, Appli	c 187	13.8	69.0	3819	2	US-07-686-322A-3	Sequence 3, Appli
c 115	14.2	71.0	36952	3	US-09-949-016-14786	Sequence 14786, A	c 188	13.8	69.0	3819	2	US-08-002-999-3	Sequence 3, Appli
c 116	14.2	71.0	39113	3	US-09-949-016-15634	Sequence 15634, A	c 189	13.8	69.0	5128	3	US-09-364-206-1	Sequence 1, Appli
c 117	14.2	71.0	54878	3	US-09-949-016-12255	Sequence 12255, A	c 190	13.8	69.0	11785	2	US-08-038-768A-4	Sequence 4, Appli
c 118	14.2	71.0	59319	3	US-09-949-016-16115	Sequence 16115, A	c 191	13.8	69.0	11785	2	US-08-416-603-3	Sequence 3, Appli
c 119	14.2	71.0	63982	3	US-09-949-016-16769	Sequence 16769, A	c 192	13.8	69.0	12082	3	US-09-949-016-16487	Sequence 16487, A
c 120	14.2	71.0	66988	3	US-09-949-016-11942	Sequence 11942, A	c 193	13.8	69.0	12584	3	US-09-949-016-15150	Sequence 15150, A
c 121	14.2	71.0	66989	3	US-09-949-016-16063	Sequence 16063, A	c 194	13.8	69.0	13440	3	US-08-961-527-128	Sequence 128, App
c 122	14.2	71.0	94748	3	US-09-949-016-12648	Sequence 12648, A	c 195	13.8	69.0	15720	3	US-09-949-016-11780	Sequence 11780, A
c 123	14.2	71.0	94758	3	US-09-949-016-16741	Sequence 16741, A	c 196	13.8	69.0	15739	3	US-09-949-016-14233	Sequence 14233, A
c 124	14.2	71.0	99660	3	US-09-762-311-2	Sequence 2, Appli	c 197	13.8	69.0	25230	3	US-09-949-016-13153	Sequence 13153, A
c 125	14.2	71.0	113966	3	US-09-949-016-12277	Sequence 12277, A	c 198	13.8	69.0	26852	3	US-09-949-016-12736	Sequence 12736, A
c 126	14.2	71.0	113967	3	US-09-949-016-17051	Sequence 17051, A	c 199	13.8	69.0	26852	3	US-09-949-016-15823	Sequence 15823, A
c 127	14.2	71.0	118143	3	US-09-949-016-17196	Sequence 17196, A	c 200	13.8	69.0	30371	3	US-09-949-016-15395	Sequence 15395, A
c 128	14.2	71.0	137046	3	US-09-949-016-12427	Sequence 12427, A	c 201	13.8	69.0	32202	3	US-09-949-016-15357	Sequence 15357, A
c 129	14.2	71.0	137048	3	US-09-949-016-13438	Sequence 13438, A	c 202	13.8	69.0	46805	3	US-09-949-002-585	Sequence 585, App
c 130	14.2	71.0	138282	3	US-09-949-016-15307	Sequence 15307, A	c 203	13.8	69.0	46806	3	US-09-949-002-842	Sequence 842, App
c 131	14.2	71.0	260286	3	US-09-949-016-17037	Sequence 17037, A	c 204	13.8	69.0	118999	3	US-09-791-105B-32	Sequence 32, Appl
c 132	14.2	71.0	260293	3	US-09-949-016-12106	Sequence 12106, A	c 205	13.8	69.0	232547	3	US-09-949-016-16603	Sequence 16603, A
c 133	14.2	71.0	285986	3	US-09-949-016-12287	Sequence 12287, A	c 206	13.8	69.0	240157	3	US-09-949-016-16264	Sequence 16264, A
c 134	14.2	71.0	331814	3	US-09-949-016-12008	Sequence 12008, A	c 207	13.8	69.0	300402	3	US-09-949-016-13632	Sequence 13632, A
c 135	14.2	71.0	331814	3	US-09-949-016-17056	Sequence 17056, A	c 208	13.8	69.0	399504	3	US-09-949-016-11774	Sequence 11774, A
c 136	14.2	71.0	450395	3	US-09-949-016-15473	Sequence 15473, A	c 209	13.8	69.0	1230225	3	US-09-198-452A-1	Sequence 1, Appli
c 137	14.2	71.0	536165	3	US-09-214-808-1	Sequence 1, Appli	c 210	13.8	69.0	1230230	3	US-09-438-185A-1	Sequence 1, Appli
c 138	14	70.0	29	3	US-09-386-642-49	Sequence 49, Appl	c 211	13.8	69.0	1830121	3	US-09-557-884-1	Sequence 1, Appli
c 139	14	70.0	346	3	US-09-543-681A-2672	Sequence 3, Appli	c 212	13.8	69.0	1830121	3	US-09-643-990A-1	Sequence 1, Appli
c 140	14	70.0	747	3	US-09-244-111-3	Sequence 2672, App	c 213	13.8	69.0	1830121	3	US-10-158-865-1	Sequence 1, Appli
c 141	14	70.0	792	3	US-09-949-016-12277	Sequence 3, Appli	c 214	13.6	68.0	25	3	US-09-396-196G-26740	Sequence 26740, A
c 142	14	70.0	994	3	US-09-008-271A-19	Sequence 19, Appl	c 215	13.6	68.0	122	3	US-09-270-767-30089	Sequence 30089, A
c 143	14	70.0	994	3	US-09-968-415-19	Sequence 19, Appl	c 216	13.6	68.0	173	3	US-09-513-999C-30711	Sequence 30711, A
c 144	14	70.0	999	3	US-09-999-833A-394	Sequence 394, App	c 217	13.6	68.0	311	3	US-09-513-999C-3595	Sequence 3595, App
c 145	14	70.0	999	3	US-10-020-445A-394	Sequence 394, Appl	c 218	13.6	68.0	321	3	US-09-328-352-166	Sequence 166, App
c 146	14	70.0	1049	3	US-09-386-642-9	Sequence 9, Appli	c 219	13.6	68.0	336	3	US-09-621-976-15624	Sequence 15624, A
c 147	14	70.0	1098	3	US-09-134-000C-1526	Sequence 1526, App	c 220	13.6	68.0	348	3	US-09-621-976-15626	Sequence 15626, A
c 148	14	70.0	1343	3	US-09-618-259-72	Sequence 72, Appl	c 221	13.6	68.0	383	3	US-09-513-999C-12670	Sequence 12670, A
c 149	14	70.0	1360	3	US-09-618-259-6	Sequence 6, Appli	c 222	13.6	68.0	407	3	US-08-718-323A-5	Sequence 5, Appli
c 150	14	70.0	1840	3	US-09-270-767-14441	Sequence 14441, A	c 223	13.6	68.0	407	3	US-09-587-526-5	Sequence 5, Appli
c 151	14	70.0	5214	3	US-09-546-934-2	Sequence 2, Appli	c 224	13.6	68.0	443	3	US-09-358-321C-41	Sequence 41, Appl
c 152	14	70.0	678533	3	US-09-949-016-14577	Sequence 14577, A	c 225	13.6	68.0	459	3	US-09-358-321C-29	Sequence 29, Appl
c 153	14	70.0	678533	3	US-09-949-016-14578	Sequence 14578, A	c 226	13.6	68.0	459	3	US-09-621-976-2015	Sequence 2015, App
c 154	13.8	69.0	488	3	US-09-364-206-9	Sequence 9, Appli	c 227	13.6	68.0	479	3	US-09-621-976-2016	Sequence 2016, App
c 155	13.8	69.0	502	3	US-09-621-976-17546	Sequence 17546, A	c 228	13.6	68.0	481	3	US-09-621-976-2013	Sequence 2013, App
c 156	13.8	69.0	511	3	US-09-854-133-360	Sequence 360, App	c 229	13.6	68.0	518	3	US-09-621-976-2014	Sequence 2014, App
c 157	13.8	69.0	586	3	US-09-364-206-10	Sequence 10, Appl	c 230	13.6	68.0	531	3	US-09-134-000C-1801	Sequence 1801, App
c 158	13.8	69.0	591	3	US-09-854-133-315	Sequence 315, App	c 231	13.6	68.0	531	3	US-09-513-999C-1895	Sequence 1895, App
c 159	13.8	69.0	601	3	US-09-949-002-1270	Sequence 1270, App	c 232	13.6	68.0	555	3	US-09-513-999C-248	Sequence 248, App
c 160	13.8	69.0	601	3	US-09-949-002-10402	Sequence 10402, A	c 233	13.6	68.0	573	3	US-09-252-991A-13283	Sequence 13283, A
c 161	13.8	69.0	621	3	US-09-533-559-429	Sequence 429, App	c 234	13.6	68.0	593	3	US-09-270-767-14006	Sequence 14006, A
c 162	13.8	69.0	634	3	US-09-364-206-11	Sequence 11, Appl	c 235	13.6	68.0	601	3	US-09-949-016-19439	Sequence 19439, A
c 163	13.8	69.0	864	3	US-09-248-796A-6229	Sequence 6229, App	c 236	13.6	68.0	601	3	US-09-949-016-19440	Sequence 19440, A
c 164	13.8	69.0	964	3	US-09-602-777A-107	Sequence 107, App	c 237	13.6	68.0	601	3	US-09-949-016-30022	Sequence 30022, A
c 165	13.8	69.0	1005	3	US-09-949-016-4745	Sequence 4745, App	c 238	13.6	68.0	601	3	US-09-949-016-49620	Sequence 49620, A
c 166	13.8	69.0	1006	3	US-09-964-889-22	Sequence 22, Appl	c 239	13.6	68.0	601	3	US-09-949-016-49621	Sequence 49621, A
c 167	13.8	69.0	1020	3	US-09-252-991A-11162	Sequence 11162, A	c 240	13.6	68.0	601	3	US-09-949-016-70142	Sequence 70142, A
c 168	13.8	69.0	1190	3	US-09-774-528-379	Sequence 379, App	c 241	13.6	68.0	601	3	US-09-949-016-70143	Sequence 70143, A
c 169	13.8	69.0	1190	3	US-10-120-988-379	Sequence 379, App	c 242	13.6	68.0	601	3	US-09-949-016-70144	Sequence 70144, A
c 170	13.8	69.0	1250	3	US-09-774-528-380	Sequence 380, App	c 243	13.6	68.0	601	3	US-09-949-016-73384	Sequence 73384, A

244	13.6	68.0	601	3	US-09-949-016-75840	Sequence 75840, A	317	13.6	68.0	2706	3	US-09-066-046-23	Sequence 23, Appl
245	13.6	68.0	601	3	US-09-949-016-77525	Sequence 77525, A	c 318	13.6	68.0	2754	3	US-09-252-991A-8530	Sequence 8530, Ap
c 246	13.6	68.0	601	3	US-09-949-016-89732	Sequence 89732, A	319	13.6	68.0	2760	3	US-09-270-767-13149	Sequence 13149, A
c 247	13.6	68.0	601	3	US-09-949-016-108798	Sequence 108798, A	320	13.6	68.0	2768	3	US-09-991-181-51	Sequence 51, Appl
c 248	13.6	68.0	601	3	US-09-949-016-113358	Sequence 113358, A	321	13.6	68.0	2768	3	US-09-990-444-51	Sequence 51, Appl
c 249	13.6	68.0	601	3	US-09-949-016-116776	Sequence 116776, A	322	13.6	68.0	2768	3	US-09-997-333-51	Sequence 51, Appl
c 250	13.6	68.0	601	3	US-09-949-016-116777	Sequence 116777, A	323	13.6	68.0	2768	3	US-09-992-598-51	Sequence 51, Appl
c 251	13.6	68.0	601	3	US-09-949-016-195352	Sequence 195352, A	324	13.6	68.0	2815	3	US-10-104-047-75	Sequence 75, Appl
c 252	13.6	68.0	601	3	US-09-949-016-198105	Sequence 198105, A	325	13.6	68.0	2852	3	US-09-063-950-1	Sequence 1, Appl
c 253	13.6	68.0	601	3	US-09-949-016-202423	Sequence 202423, A	326	13.6	68.0	2852	3	US-09-067-794A-189	Sequence 189, App
c 254	13.6	68.0	601	3	US-09-949-016-202424	Sequence 202424, A	327	13.6	68.0	2917	3	US-09-905-125A-189	Sequence 189, App
c 255	13.6	68.0	601	3	US-09-949-002-1847	Sequence 3817, Ap	328	13.6	68.0	2917	3	US-09-902-775A-189	Sequence 189, App
c 256	13.6	68.0	601	3	US-09-949-002-10450	Sequence 10450, A	329	13.6	68.0	2917	3	US-09-906-700-189	Sequence 189, App
c 257	13.6	68.0	606	3	US-09-270-767-768	Sequence 768, App	330	13.6	68.0	2917	3	US-09-903-603A-189	Sequence 189, App
c 258	13.6	68.0	606	3	US-09-270-767-16050	Sequence 16050, A	331	13.6	68.0	2917	3	US-09-904-320A-189	Sequence 189, App
259	13.6	68.0	612	3	US-09-328-352-167	Sequence 167, App	332	13.6	68.0	2917	3	US-09-909-064-189	Sequence 189, App
260	13.6	68.0	635	3	US-09-621-976-2017	Sequence 2017, Ap	333	13.6	68.0	2917	3	US-09-905-381A-189	Sequence 189, App
c 261	13.6	68.0	668	3	US-08-578-634C-2	Sequence 2, Appl	334	13.6	68.0	2917	3	US-09-906-618-189	Sequence 189, App
c 262	13.6	68.0	668	3	US-09-430-010-2	Sequence 3, Appl	335	13.6	68.0	2917	3	US-09-906-646-189	Sequence 189, App
263	13.6	68.0	674	3	US-09-673-395A-94	Sequence 94, Appl	336	13.6	68.0	2917	3	US-09-904-462-189	Sequence 189, App
264	13.6	68.0	738	3	US-09-358-321C-49	Sequence 49, Appl	337	13.6	68.0	2917	3	US-09-902-736A-189	Sequence 189, App
265	13.6	68.0	753	3	US-09-358-321C-51	Sequence 51, Appl	338	13.6	68.0	2917	3	US-09-906-722A-189	Sequence 189, App
266	13.6	68.0	807	3	US-09-270-767-10066	Sequence 10066, A	339	13.6	68.0	3054	3	US-09-149-476-194	Sequence 194, App
267	13.6	68.0	830	3	US-09-358-321C-31	Sequence 31, Appl	340	13.6	68.0	3073	3	US-08-975-762-41	Sequence 41, Appl
268	13.6	68.0	846	3	US-09-358-321C-48	Sequence 48, Appl	341	13.6	68.0	3073	3	US-09-295-028-41	Sequence 41, Appl
269	13.6	68.0	851	3	US-09-358-321C-42	Sequence 42, Appl	342	13.6	68.0	3073	3	US-09-106-582-41	Sequence 41, Appl
270	13.6	68.0	867	3	US-09-358-321C-43	Sequence 43, Appl	343	13.6	68.0	3073	3	US-09-159-469-41	Sequence 41, Appl
271	13.6	68.0	882	3	US-09-358-321C-24	Sequence 24, Appl	344	13.6	68.0	3073	3	US-09-593-542-41	Sequence 41, Appl
272	13.6	68.0	882	3	US-09-358-321C-47	Sequence 47, Appl	345	13.6	68.0	3132	3	US-09-286-304-45	Sequence 45, Appl
273	13.6	68.0	1039	3	US-08-975-762-36	Sequence 36, Appl	346	13.6	68.0	3132	3	US-09-640-101-45	Sequence 45, Appl
274	13.6	68.0	1039	3	US-08-821-324-36	Sequence 36, Appl	347	13.6	68.0	3252	3	US-09-604-608-1	Sequence 1, Appl
275	13.6	68.0	1039	3	US-09-295-028-36	Sequence 36, Appl	348	13.6	68.0	3399	3	US-09-614-221A-600	Sequence 600, App
276	13.6	68.0	1039	3	US-09-106-582-36	Sequence 36, Appl	349	13.6	68.0	3634	3	US-09-814-915A-28	Sequence 28, Appl
277	13.6	68.0	1039	3	US-09-159-469-36	Sequence 36, Appl	350	13.6	68.0	3634	3	US-09-949-016-5605	Sequence 5605, Ap
278	13.6	68.0	1039	3	US-09-693-542-36	Sequence 36, Appl	351	13.6	68.0	3634	3	US-09-949-016-5606	Sequence 5606, Ap
c 279	13.6	68.0	1095	3	US-09-831-641-46	Sequence 46, Appl	352	13.6	68.0	4060	3	US-09-873-737A-3	Sequence 3, Appl
280	13.6	68.0	1269	3	US-09-976-594-543	Sequence 543, App	353	13.6	68.0	4754	3	US-10-464-939-3	Sequence 3, Appl
281	13.6	68.0	1371	3	US-09-248-796A-2945	Sequence 2945, Ap	354	13.6	68.0	5226	3	US-09-949-016-4074	Sequence 4074, Ap
282	13.6	68.0	1443	3	US-09-252-991A-8318	Sequence 8318, Ap	355	13.6	68.0	5825	3	US-09-949-016-4382	Sequence 4382, Ap
283	13.6	68.0	1455	3	US-10-142-231-43	Sequence 43, Appl	356	13.6	68.0	5878	3	US-09-949-016-939	Sequence 939, App
c 284	13.6	68.0	1495	3	US-09-364-230-11	Sequence 11, Appl	357	13.6	68.0	6641	3	US-09-064-693A-25	Sequence 25, Appl
c 285	13.6	68.0	1572	3	US-09-585-645A-57	Sequence 57, Appl	358	13.6	68.0	8170	3	US-09-949-016-2660	Sequence 2660, Ap
c 286	13.6	68.0	1803	3	US-09-252-991A-12466	Sequence 12466, A	359	13.6	68.0	9997	2	US-08-246-982A-15	Sequence 15, Appl
287	13.6	68.0	1830	2	US-08-343-733A-2	Sequence 2, Appl	360	13.6	68.0	9997	2	US-08-453-265-15	Sequence 15, Appl
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c 289	13.6	68.0	1924	3	US-10-018-902-3	Sequence 3, Appl	362	13.6	68.0	11577	3	US-09-949-016-14662	Sequence 14662, A
290	13.6	68.0	1971	3	US-09-252-991A-13004	Sequence 13004, A	363	13.6	68.0	13119	3	US-09-949-016-14648	Sequence 14648, A
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292	13.6	68.0	2026	2	US-08-149-097D-19	Sequence 19, Appl	365	13.6	68.0	16080	3	US-09-724-566A-48	Sequence 48, Appl
293	13.6	68.0	2144	2	US-08-149-097D-20	Sequence 20, Appl	366	13.6	68.0	16080	3	US-09-471-669A-48	Sequence 48, Appl
294	13.6	68.0	2144	3	US-08-949-386-20	Sequence 20, Appl	367	13.6	68.0	25969	3	US-09-949-016-13397	Sequence 13397, A
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297	13.6	68.0	2144	3	US-08-450-272-20	Sequence 20, Appl	370	13.6	68.0	26534	3	US-09-949-016-12408	Sequence 12408, A
298	13.6	68.0	2144	3	US-08-450-273-20	Sequence 20, Appl	371	13.6	68.0	29624	3	US-09-949-016-12367	Sequence 12367, A
299	13.6	68.0	2153	3	US-08-949-386-19	Sequence 19, Appl	372	13.6	68.0	29624	3	US-09-949-016-13943	Sequence 13943, A
300	13.6	68.0	2153	3	US-08-450-562-19	Sequence 19, Appl	373	13.6	68.0	30032	3	US-09-949-016-13933	Sequence 13933, A
301	13.6	68.0	2153	3	US-08-984-709A-19	Sequence 19, Appl	374	13.6	68.0	34544	3	US-09-949-016-12681	Sequence 12681, A
302	13.6	68.0	2153	3	US-08-450-272-19	Sequence 19, Appl	375	13.6	68.0	34548	3	US-09-949-016-16814	Sequence 16124, A
303	13.6	68.0	2153	3	US-08-450-273-19	Sequence 19, Appl	376	13.6	68.0	35493	3	US-09-949-016-16780	Sequence 16780, A
304	13.6	68.0	2183	3	US-10-104-047-1675	Sequence 1675, Ap	377	13.6	68.0	35493	3	US-08-311-731A-123	Sequence 123, App
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307	13.6	68.0	2420	6	PCT-US93-00227-1	Sequence 1, Appl	380	13.6	68.0	39113	3	US-09-949-016-15634	Sequence 15634, A
308	13.6	68.0	2431	3	US-10-131-827-8865	Sequence 865, Ap	381	13.6	68.0	41927	3	US-09-902-540-1268	Sequence 1268, Ap
309	13.6	68.0	2456	3	US-09-064-693A-19	Sequence 19, Appl	382	13.6	68.0	45587	3	US-09-949-016-15836	Sequence 15836, A
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311	13.6	68.0	2555	3	US-09-866-028-68	Sequence 68, Appl	384	13.6	68.0	51927	3	US-09-949-016-17348	Sequence 17348, A
312	13.6	68.0	2555	3	US-09-944-457-68	Sequence 68, Appl	385	13.6	68.0	51967	3	US-09-949-016-16982	Sequence 16982, A
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314	13.6	68.0	2555	3	US-09-944-944-68	Sequence 68, Appl	387	13.6	68.0	60137	3	US-09-949-016-14735	Sequence 14735, A
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c 316	13.6	68.0	2577	3	US-09-252-991A-8458	Sequence 8458, Ap	389	13.6	68.0	63467	3	US-09-949-002-693	Sequence 693, App







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# SUMMARIES

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2	19	95.0	21	9	US-10-805-973-3
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5	18.4	92.0	42	9	US-10-805-973-17
6	18.4	92.0	370	8	US-10-486-582-2
7	18.4	92.0	1524	8	US-10-486-605-5
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9	18.4	92.0	1524	8	US-10-486-605-7
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22	18.4	92.0	2301	6	US-10-258-842-2
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25	17.4	87.0	42	9	US-10-805-973-12	Sequence 12, Appl
26	17.4	87.0	42	9	US-10-805-973-16	Sequence 16, Appl
27	17.4	87.0	42	9	US-10-805-973-18	Sequence 18, Appl
28	17.4	87.0	121	6	US-10-307-005-59	Sequence 69, Appl
c 29	17.4	87.0	121	6	US-10-307-005-70	Sequence 70, Appl
c 30	17.4	87.0	121	6	US-10-307-005-109	Sequence 109, App
c 31	17.4	87.0	121	6	US-10-307-005-110	Sequence 110, App
c 32	17.4	87.0	121	6	US-10-307-005-253	Sequence 253, App
c 33	17.4	87.0	121	6	US-10-307-005-254	Sequence 254, App
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37	17.4	87.0	182	10	US-11-109-587-12	Sequence 12, Appl
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41	17.4	87.0	208	6	US-10-258-842-11	Sequence 11, Appl
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45	17.4	87.0	370	8	US-10-486-582-3	Sequence 3, Appl
46	17.4	87.0	411	8	US-10-486-595-1	Sequence 1, Appl
47	17.4	87.0	498	8	US-10-486-595-5	Sequence 5, Appl
48	17.4	87.0	511	8	US-10-486-595-3	Sequence 3, Appl
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53	17.4	87.0	1672	8	US-10-486-605-3	Sequence 3, Appl
54	17.4	87.0	1674	8	US-10-486-605-17	Sequence 17, Appl
55	17.4	87.0	1674	8	US-10-486-605-19	Sequence 19, Appl
56	17.4	87.0	1674	8	US-10-486-605-31	Sequence 31, Appl
57	17.4	87.0	1675	8	US-10-486-605-1	Sequence 1, Appl
58	17.4	87.0	1677	8	US-10-486-605-23	Sequence 23, Appl
59	17.4	87.0	1935	10	US-11-075-808-4	Sequence 4, Appl
60	17.4	87.0	1935	10	US-11-075-808-6	Sequence 6, Appl
61	17.4	87.0	1985	6	US-10-258-842-20	Sequence 20, Appl
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64	17.4	87.0	1986	10	US-11-109-587-18	Sequence 18, Appl
65	17.4	87.0	2279	6	US-10-258-842-4	Sequence 4, Appl
66	17.4	87.0	2279	7	US-10-432-962-2	Sequence 2, Appl
67	17.4	87.0	2279	10	US-11-109-587-4	Sequence 4, Appl
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69	16.8	84.0	507	3	US-09-844-036A-5	Sequence 5, Appl
70	16.8	84.0	507	7	US-10-688-128-5	Sequence 5, Appl
c 71	16.8	84.0	644	4	US-09-925-065A-473249	Sequence 473249, A
c 72	16.8	84.0	1119	3	US-09-738-626-2674	Sequence 2674, Ap
c 73	16.8	84.0	2024	7	US-10-437-963-84860	Sequence 84860, A
74	16.8	84.0	5262	9	US-10-840-512-73	Sequence 73, Appl
75	16.8	84.0	3309400	3	US-09-738-626-1	Sequence 1, Appl
76	16	80.0	121	6	US-10-307-005-98	Sequence 97, Appl
c 77	16	80.0	121	6	US-10-307-005-57	Sequence 98, Appl
c 78	16	80.0	121	6	US-10-307-005-141	Sequence 141, App
c 79	16	80.0	121	6	US-10-307-005-142	Sequence 142, App
c 80	16	80.0	121	6	US-10-307-005-297	Sequence 297, App
c 81	16	80.0	121	6	US-10-307-005-298	Sequence 298, App
82	15.8	79.0	25	7	US-10-719-956-247889	Sequence 247889, A
c 83	15.8	79.0	25	8	US-10-719-900-309913	Sequence 309913, A
c 84	15.8	79.0	726	6	US-10-259-165-325	Sequence 325, App
85	15.8	79.0	783	4	US-09-925-065A-926949	Sequence 926949, A
86	15.8	79.0	789	4	US-09-925-065A-926948	Sequence 926948, A
87	15.8	79.0	1086	8	US-10-653-047-10	Sequence 10, Appl
88	15.8	79.0	1286	4	US-09-925-065A-672184	Sequence 672184, A
89	15.8	79.0	1286	4	US-09-925-065A-672185	Sequence 672185, A
90	15.8	79.0	1286	4	US-09-925-065A-672186	Sequence 672186, A
c 91	15.8	79.0	1558	7	US-10-424-599-124577	Sequence 124577, A
c 92	15.8	79.0	2043	5	US-10-027-632-100150	Sequence 100150, A
93	15.8	79.0	2043	6	US-10-027-632-100150	Sequence 100150, A
c 94	15.8	79.0	2762	5	US-10-116-802-39	Sequence 39, Appl
c 95	15.8	79.0	3183	9	US-10-335-053-48	Sequence 48, Appl
c 96	15.8	79.0	3201	9	US-10-887-553A-1005	Sequence 1005, App

c 97	15.8	79.0	4074	7	US-10-437-963-80492	Sequence 80492, A	170	15.2	76.0	2331	7	US-10-293-965-4	Sequence 4, Appl
c 98	15.8	79.0	146793	8	US-10-388-838-65	Sequence 65, Appl	171	15.2	76.0	2331	9	US-10-485-225-42	Sequence 42, Appl
c 99	15.4	77.0	538	8	US-10-425-115-148477	Sequence 148477, A	172	15.2	76.0	2331	10	US-11-070-332-4	Sequence 4, Appl
c 100	15.2	76.0	25	8	US-10-719-900-65201	Sequence 65201, A	173	15.2	76.0	2332	9	US-10-485-225-44	Sequence 44, Appl
c 101	15.2	76.0	25	8	US-10-719-900-251818	Sequence 251818, A	174	15.2	76.0	2511	6	US-10-369-493-40068	Sequence 40068, A
c 102	15.2	76.0	25	8	US-10-719-900-637576	Sequence 637576, A	175	15.2	76.0	2522	6	US-10-369-493-39035	Sequence 39035, A
c 103	15.2	76.0	25	8	US-10-719-900-637577	Sequence 637577, A	176	15.2	76.0	2522	6	US-10-369-493-39402	Sequence 39402, A
c 104	15.2	76.0	41	7	US-10-377-972C-9	Sequence 9, Appl	177	15.2	76.0	2667	7	US-10-293-965-1	Sequence 1, Appl
c 105	15.2	76.0	177	7	US-10-293-965-33	Sequence 33, Appl	178	15.2	76.0	2667	9	US-10-485-225-40	Sequence 40, Appl
c 106	15.2	76.0	177	10	US-11-070-332-33	Sequence 33, Appl	179	15.2	76.0	2667	9	US-10-979-766-1	Sequence 1, Appl
c 107	15.2	76.0	212	7	US-10-767-701-22373	Sequence 22373, A	180	15.2	76.0	2667	10	US-11-070-332-1	Sequence 1, Appl
c 108	15.2	76.0	280	3	US-09-983-965-3521	Sequence 3521, Ap	181	15.2	76.0	2745	10	US-11-097-143-40438	Sequence 40438, A
c 109	15.2	76.0	279	7	US-10-469-285-17	Sequence 17, Appl	182	15.2	76.0	2895	7	US-10-437-963-63578	Sequence 63578, A
c 110	15.2	76.0	326	3	US-09-733-627A-2992	Sequence 2992, Ap	183	15.2	76.0	2931	8	US-10-425-115-83343	Sequence 83343, A
c 111	15.2	76.0	372	7	US-10-437-963-64948	Sequence 64948, A	184	15.2	76.0	3251	7	US-10-250-613-35	Sequence 35, Appl
c 112	15.2	76.0	381	7	US-10-437-963-68777	Sequence 68777, A	c 184	15.2	76.0	3382	8	US-10-425-115-94171	Sequence 94171, A
c 113	15.2	76.0	411	3	US-09-814-353-1947	Sequence 1947, Ap	186	15.2	76.0	3645	3	US-09-083-290-1	Sequence 1, Appl
c 114	15.2	76.0	411	3	US-09-814-353-8294	Sequence 8294, Ap	187	15.2	76.0	3645	6	US-10-053-291-1	Sequence 1, Appl
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c 127	15.2	76.0	564	6	US-10-027-632-21475	Sequence 21475, A	200	15	75.0	24	3	US-09-940-185-2705	Sequence 2705, Ap
c 128	15.2	76.0	598	4	US-09-925-065A-426540	Sequence 426540, A	c 201	15	75.0	600	9	US-10-972-079-17187	Sequence 17187, A
c 129	15.2	76.0	600	9	US-10-972-079-875	Sequence 875, App	c 202	15	75.0	600	9	US-10-972-079-17188	Sequence 17188, A
c 130	15.2	76.0	600	9	US-10-972-079-876	Sequence 876, App	c 203	15	75.0	619	4	US-09-925-065A-905145	Sequence 905145, A
c 131	15.2	76.0	600	9	US-10-972-079-877	Sequence 877, App	723	15	75.0	729	7	US-10-424-599-106769	Sequence 106769, A
c 132	15.2	76.0	600	9	US-10-972-079-878	Sequence 878, App	c 205	15	75.0	5665	7	US-10-437-963-82160	Sequence 82160, A
c 133	15.2	76.0	600	9	US-10-972-079-879	Sequence 879, App	c 206	15	75.0	25	7	US-10-719-956-407938	Sequence 407938, A
c 134	15.2	76.0	623	7	US-10-021-323-669	Sequence 669, App	c 207	14.8	74.0	356	8	US-10-425-115-32300	Sequence 32300, A
c 135	15.2	76.0	649	5	US-10-027-632-15480	Sequence 15480, A	c 208	14.8	74.0	390	9	US-10-501-282-4399	Sequence 4399, Ap
c 136	15.2	76.0	649	6	US-10-027-632-15480	Sequence 15480, A	c 209	14.8	74.0	397	3	US-09-918-995-7932	Sequence 7932, Ap
c 137	15.2	76.0	657	8	US-10-425-115-101968	Sequence 101968, A	c 210	14.8	74.0	405	7	US-10-437-963-21444	Sequence 21444, A
c 138	15.2	76.0	681	10	US-11-097-143-40439	Sequence 40439, A	c 211	14.8	74.0	405	7	US-10-424-599-114795	Sequence 114795, A
c 139	15.2	76.0	799	5	US-10-198-846-6368	Sequence 6368, Ap	c 212	14.8	74.0	422	5	US-10-027-632-63157	Sequence 63157, A
c 140	15.2	76.0	846	7	US-10-424-599-67827	Sequence 67827, A	c 213	14.8	74.0	422	6	US-10-027-632-63157	Sequence 63157, A
c 141	15.2	76.0	911	7	US-10-424-599-94049	Sequence 94049, A	c 214	14.8	74.0	425	5	US-10-027-632-297023	Sequence 297023, A
c 142	15.2	76.0	918	7	US-10-425-114-35723	Sequence 35723, A	c 215	14.8	74.0	425	6	US-10-027-632-297023	Sequence 297023, A
c 143	15.2	76.0	960	8	US-10-774-355A-555	Sequence 555, App	c 216	14.8	74.0	468	5	US-10-027-632-181014	Sequence 181014, A
c 144	15.2	76.0	979	7	US-10-767-701-2215	Sequence 2215, Ap	c 217	14.8	74.0	479	4	US-09-925-065A-741787	Sequence 741787, A
c 145	15.2	76.0	1010	7	US-10-767-701-13073	Sequence 13073, A	c 218	14.8	74.0	479	4	US-09-925-065A-418659	Sequence 418659, A
c 146	15.2	76.0	1061	7	US-10-425-114-17098	Sequence 17098, A	c 219	14.8	74.0	556	5	US-10-027-632-41137	Sequence 41137, A
c 147	15.2	76.0	1178	7	US-10-425-114-36153	Sequence 36153, A	c 220	14.8	74.0	556	5	US-10-027-632-41137	Sequence 41137, A
c 148	15.2	76.0	1226	7	US-10-424-599-44905	Sequence 44905, A	c 221	14.8	74.0	566	6	US-10-027-632-41137	Sequence 41137, A
c 149	15.2	76.0	1339	3	US-09-852-472-18	Sequence 18, Appl	c 222	14.8	74.0	568	7	US-10-437-963-22175	Sequence 22175, A
c 150	15.2	76.0	1369	3	US-09-764-875-131	Sequence 131, Appl	c 223	14.8	74.0	599	9	US-10-972-079-19242	Sequence 19242, A
c 151	15.2	76.0	1391	3	US-09-866-050A-586	Sequence 586, App	c 224	14.8	74.0	600	9	US-10-972-079-19243	Sequence 19243, A
c 152	15.2	76.0	1391	5	US-10-152-661-586	Sequence 586, App	c 225	14.8	74.0	600	9	US-10-972-079-19244	Sequence 19244, A
c 153	15.2	76.0	1406	6	US-10-369-493-27865	Sequence 27865, A	c 226	14.8	74.0	603	4	US-09-925-065A-165507	Sequence 165507, A
c 154	15.2	76.0	1463	8	US-10-425-115-131957	Sequence 131957, A	c 227	14.8	74.0	605	4	US-09-925-065A-418346	Sequence 418346, A
c 155	15.2	76.0	1478	7	US-10-425-115-12446	Sequence 2446, Ap	c 228	14.8	74.0	605	4	US-09-925-065A-418347	Sequence 418347, A
c 156	15.2	76.0	1503	7	US-10-424-599-67826	Sequence 67826, A	c 229	14.8	74.0	605	4	US-09-925-065A-418348	Sequence 418348, A
c 157	15.2	76.0	1533	8	US-10-425-115-171938	Sequence 171938, A	c 230	14.8	74.0	605	4	US-09-925-065A-418349	Sequence 418349, A
c 158	15.2	76.0	1625	7	US-10-425-114-31333	Sequence 31333, A	c 231	14.8	74.0	656	5	US-10-027-632-127393	Sequence 127393, A
c 159	15.2	76.0	1660	8	US-10-425-115-94167	Sequence 94167, A	c 232	14.8	74.0	656	6	US-10-027-632-127393	Sequence 127393, A
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c 162	15.2	76.0	1705	6	US-10-063-674-1756	Sequence 1756, Ap	c 235	14.8	74.0	1026	6	US-10-793-639-358	Sequence 358, App
c 163	15.2	76.0	2106	7	US-10-437-963-1931	Sequence 1931, Ap	c 236	14.8	74.0	1173	9	US-10-501-382-4397	Sequence 4397, Ap
c 164	15.2	76.0	2216	7	US-10-425-114-4552	Sequence 4552, Ap	c 237	14.8	74.0	1542	7	US-10-424-599-128768	Sequence 128768, A
c 165	15.2	76.0	2280	5	US-10-027-632-262971	Sequence 262971, A	c 238	14.8	74.0	1553	7	US-10-437-963-88776	Sequence 88776, A
c 166	15.2	76.0	2280	5	US-10-027-632-262972	Sequence 262972, A	c 239	14.8	74.0	1627	4	US-09-925-065A-706235	Sequence 706235, A
c 167	15.2	76.0	2280	6	US-10-027-632-262971	Sequence 262971, A	c 240	14.8	74.0	1766	7	US-10-191-803-212	Sequence 212, App
c 168	15.2	76.0	2280	6	US-10-027-632-262972	Sequence 262972, A	c 241	14.8	74.0	1989	7	US-10-437-963-81257	Sequence 81257, A
c 169	15.2	76.0	2295	8	US-10-739-930-5541	Sequence 5541, Ap	c 242	14.8	74.0	2103	7	US-10-437-963-80352	Sequence 80352, A

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245	14.8	74.0	2225	4	US-09-925-065A-64705	Sequence 64705, A	c 318	14.4	72.0	592	5	US-10-027-632-81105	Sequence 81105, A
246	14.8	74.0	2733	8	US-10-435-115-113871	Sequence 113871, A	c 319	14.4	72.0	592	6	US-10-027-632-81105	Sequence 81105, A
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249	14.8	74.0	2835	5	US-10-027-632-112285	Sequence 112285, A	c 322	14.4	72.0	621	7	US-10-425-114-2496	Sequence 2496, Ap
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253	14.8	74.0	3411	7	US-10-437-963-80405	Sequence 80405, A	c 326	14.4	72.0	648	6	US-10-437-963-80405	Sequence 80405, A
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261	14.8	74.0	6053	7	US-10-437-963-78933	Sequence 78933, A	c 334	14.4	72.0	704	8	US-10-537-930-10244	Sequence 10244, A
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265	14.8	74.0	33963	5	US-10-292-798-617	Sequence 617, App	c 338	14.4	72.0	801	7	US-10-425-115-6467	Sequence 6467, Ap
266	14.8	74.0	37561	5	US-10-087-192-1129	Sequence 1129, Ap	c 339	14.4	72.0	810	7	US-10-437-963-31758	Sequence 31758, A
267	14.8	74.0	61635	9	US-10-737-082-105	Sequence 105, App	c 340	14.4	72.0	1122	9	US-10-792-571-17	Sequence 17, Appl
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269	14.8	74.0	61635	9	US-10-765-790-105	Sequence 105, App	c 342	14.4	72.0	1185	6	US-10-369-493-46606	Sequence 46606, A
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271	14.8	74.0	80815	7	US-10-322-281-486	Sequence 486, App	c 344	14.4	72.0	1314	3	US-09-738-626-2681	Sequence 2681, Ap
272	14.8	74.0	105413	6	US-10-427-923-3	Sequence 3, Appli	c 345	14.4	72.0	1314	3	US-09-738-626-2681	Sequence 2681, Ap
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274	14.8	74.0	166181	8	US-10-723-860-1452	Sequence 1452, Ap	c 347	14.4	72.0	1366	6	US-10-172-118-719	Sequence 719, App
275	14.8	74.0	166181	8	US-10-723-860-3281	Sequence 3281, Ap	c 348	14.4	72.0	1366	6	US-10-172-118-719	Sequence 719, App
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277	14.8	74.0	290040	8	US-10-850-586-3	Sequence 3, Appli	c 350	14.4	72.0	1419	10	US-11-051-454-151	Sequence 151, App
278	14.8	74.0	290040	8	US-10-850-586-3	Sequence 3, Appli	c 351	14.4	72.0	1419	10	US-11-051-454-151	Sequence 151, App
279	14.8	74.0	312477	7	US-10-317-883A-12	Sequence 12, Appl	c 352	14.4	72.0	1459	6	US-10-369-493-29355	Sequence 29355, A
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291	14.4	72.0	121	6	US-10-307-005-126	Sequence 126, App	c 364	14.4	72.0	1470	5	US-10-450-763-20218	Sequence 20218, A
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296	14.4	72.0	121	6	US-10-307-005-281	Sequence 281, App	c 369	14.4	72.0	1470	5	US-10-450-763-20218	Sequence 20218, A
297	14.4	72.0	121	6	US-10-307-005-282	Sequence 282, App	c 370	14.4	72.0	1470	5	US-10-450-763-20218	Sequence 20218, A
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311	14.4	72.0	553	6	US-10-027-632-51486	Sequence 51486, A	c 384	14.4	72.0	1470	5	US-10-450-763-20218	Sequence 20218, A
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(without alignments)  
123.418 Million cell updates/sec

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Perfect score: 20

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Searched: 6247088 seqs, 457523669 residues

Total number of hits satisfying chosen parameters: 12494176

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Post-processing: Minimum Match 0%

Maximum Match 100%

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- 11: /cgn2\_6/ptodata/2/pubnpa/US11\_NEW\_PUB.seq.\*
- 12: /cgn2\_6/ptodata/2/pubnpa/US11\_NEW\_PUB.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18.4	92.0	1403	7	US-10-509-121-35
2	18.4	92.0	1788	11	US-11-152-903-1
3	18.4	92.0	1788	11	US-11-152-903-3
4	18.4	92.0	1788	11	US-11-152-903-5
5	18.4	92.0	2300	7	US-10-509-121-3
6	18.4	92.0	2301	7	US-10-509-121-1
7	18.4	92.0	2301	7	US-10-509-121-38
8	17.4	87.0	1788	11	US-11-152-903-7
9	17.4	87.0	1788	11	US-11-152-903-9
10	17.4	87.0	1788	11	US-11-152-903-11
11	17.4	87.0	2279	7	US-10-509-121-37
12	17.4	87.0	2294	7	US-10-509-121-5
13	17.4	87.0	2294	7	US-10-509-121-7
14	15.4	77.0	2479	7	US-10-750-185-57062
15	15.4	77.0	2479	7	US-10-750-623-57062
16	15.2	76.0	177	11	US-11-031-737A-33
17	15.2	76.0	1404	7	US-10-509-121-36
18	15.2	76.0	2331	11	US-11-031-737A-4
19	15.2	76.0	2667	11	US-11-031-737A-1
20	15.2	76.0	5128	11	US-11-031-737A-3
21	15.2	76.0	5196	11	US-11-150-888-11

22	14.8	74.0	25	7	US-10-310-914A-1167940	Sequence 1167940,
23	14.8	74.0	656	11	US-11-043-752-1505	Sequence 1505, Ap
24	14.8	74.0	2115	11	US-11-136-527-3007	Sequence 3007, Ap
25	14.8	74.0	2519	7	US-10-750-185-34016	Sequence 34016, A
26	14.8	74.0	2519	7	US-10-750-623-34016	Sequence 34016, A
27	14.8	74.0	120697	11	US-11-121-086-48	Sequence 48, Appl
28	14.8	74.0	197781	11	US-11-112-908-33	Sequence 33, Appl
29	14.8	74.0	217623	11	US-11-112-908-33	Sequence 33, Appl
30	14.4	72.0	1330	11	US-11-055-822-5	Sequence 5, Appl
31	14.4	72.0	1330	11	US-11-055-822-305	Sequence 305, App
32	14.4	72.0	1330	11	US-11-055-822-331	Sequence 331, App
33	14.4	72.0	1330	11	US-11-055-822-519	Sequence 519, App
34	14.4	72.0	1473	7	US-10-750-185-59361	Sequence 59361, A
35	14.4	72.0	1473	7	US-10-750-623-59361	Sequence 59361, A
36	14.4	72.0	1491	11	US-11-055-822-3	Sequence 3, Appl
37	14.4	72.0	1491	11	US-11-055-822-303	Sequence 303, App
38	14.4	72.0	1491	11	US-11-055-822-329	Sequence 329, App
39	14.4	72.0	1491	11	US-11-055-822-517	Sequence 517, App
40	14.4	72.0	2631	7	US-10-276-233A-11	Sequence 11, Appl
41	14.4	72.0	2727	11	US-11-122-329-28	Sequence 28, Appl
42	14.4	72.0	3446	7	US-10-821-234-180	Sequence 180, App
43	14.4	72.0	56952	11	US-11-124-368A-2909	Sequence 2909, Ap
44	14.4	72.0	186442	11	US-11-121-086-104	Sequence 104, App
45	14.2	71.0	25	11	US-11-136-527-179354	Sequence 179354,
46	14.2	71.0	211	8	US-11-021-492-678	Sequence 678, App
47	14.2	71.0	258	8	US-11-021-492-674	Sequence 674, App
48	14.2	71.0	586	11	US-11-136-527-3605	Sequence 3605, Ap
49	14.2	71.0	586	11	US-11-136-527-7701	Sequence 7701, Ap
50	14.2	71.0	734	11	US-11-120-308-31	Sequence 31, Appl
51	14.2	71.0	878	7	US-10-750-185-55829	Sequence 55829, A
52	14.2	71.0	878	7	US-10-750-623-55829	Sequence 55829, A
53	14.2	71.0	1716	11	US-11-043-889-14	Sequence 14, Appl
54	14.2	71.0	1917	11	US-11-043-889-12	Sequence 12, Appl
55	14.2	71.0	2001	7	US-10-750-185-50384	Sequence 50384, A
56	14.2	71.0	2001	7	US-10-750-623-50384	Sequence 50384, A
57	14.2	71.0	2208	11	US-11-128-061-601	Sequence 601, App
58	14.2	71.0	2208	11	US-11-128-049-601	Sequence 601, App
59	14.2	71.0	4829	7	US-10-750-185-50118	Sequence 50118, A
60	14.2	71.0	4829	7	US-10-750-623-50118	Sequence 50118, A
61	14.2	71.0	55763	7	US-10-972-766-1	Sequence 1, Appl
62	14.2	71.0	82596	11	US-11-117-187-207	Sequence 207, App
63	14.2	71.0	94905	11	US-11-117-187-208	Sequence 208, App
64	14.2	71.0	96109	11	US-11-124-368A-2895	Sequence 2895, Ap
65	14.2	71.0	120697	11	US-11-121-086-48	Sequence 48, Appl
66	14.2	71.0	149382	7	US-10-995-561-13272	Sequence 13272, A
67	14.2	71.0	149419	11	US-11-112-908-49	Sequence 49, Appl
68	14.2	71.0	161726	11	US-11-112-908-48	Sequence 48, Appl
69	14.2	71.0	161726	11	US-11-112-908-52	Sequence 52, Appl
70	14.2	71.0	166111	11	US-11-112-908-47	Sequence 47, Appl
71	14.2	71.0	1080000	7	US-10-928-446A-1	Sequence 1, Appl
72	14.2	71.0	1080000	7	US-10-928-446A-181	Sequence 181, App
73	14.2	71.0	1080000	7	US-10-928-446A-183	Sequence 183, App
74	14.2	71.0	1080000	7	US-10-928-446A-185	Sequence 185, App
75	14.2	71.0	1080000	7	US-10-928-446A-187	Sequence 187, App
76	14.2	71.0	1080000	7	US-10-928-446A-189	Sequence 189, App
77	14.2	71.0	1080000	7	US-10-928-446A-191	Sequence 191, App
78	14.2	71.0	1080000	7	US-10-928-446A-193	Sequence 193, App
79	14.2	71.0	1080000	7	US-10-928-446A-195	Sequence 195, App
80	14.2	71.0	1080000	7	US-10-928-446A-197	Sequence 197, App
81	14.2	71.0	1080000	7	US-10-928-446A-199	Sequence 199, App
82	14.2	71.0	1080000	7	US-10-928-446A-201	Sequence 201, App
83	14.2	71.0	1082144	11	US-11-117-187-211	Sequence 211, App
84	14.2	71.0	1691140	11	US-11-091-018-1	Sequence 1, Appl
85	14	70.0	22	7	US-10-310-914A-228008	Sequence 228008,
86	14	70.0	23	7	US-10-310-914A-228001	Sequence 228001,
87	14	70.0	50	11	US-11-175-859-78768	Sequence 78768, A
88	14	70.0	783	7	US-10-510-321-4	Sequence 4, Appl
89	14	70.0	994	11	US-11-183-914-19	Sequence 19, Appl
90	14	70.0	999	7	US-10-131-826A-395	Sequence 395, App
91	14	70.0	4291	11	US-11-024-959-246	Sequence 246, App
92	14	70.0	4507	11	US-11-136-527-1960	Sequence 1960, App
93	13.8	69.0	25	11	US-11-121-849-129844	Sequence 129844,
94	13.8	69.0	25	11	US-11-121-849-476470	Sequence 476470,

c 95	13.8	69.0	25	11	US-11-121-849-516745	Sequence 516745,	168	13.6	68.0	19521	11	US-11-124-367A-5017	Sequence 5017, Ap
c 96	13.8	69.0	25	11	US-11-136-527-144220	Sequence 144220,	c 169	13.6	68.0	28672	6	US-10-893-483-62	Sequence 62, Appl
c 97	13.8	69.0	201	7	US-10-995-561-3579	Sequence 3579, Ap	c 170	13.6	68.0	50484	6	US-10-893-483-63	Sequence 63, Appl
c 98	13.8	69.0	201	7	US-10-995-561-3988	Sequence 3988, Ap	c 171	13.6	68.0	79122	11	US-11-117-187-200	Sequence 200, Appl
c 99	13.8	69.0	201	7	US-10-995-561-25177	Sequence 25177, A	c 172	13.6	68.0	160226	11	US-11-121-086-29	Sequence 29, Appl
c 100	13.8	69.0	795	11	US-11-136-527-3337	Sequence 3337, Ap	c 173	13.6	68.0	165627	11	US-11-121-086-89	Sequence 89, Appl
c 101	13.8	69.0	795	11	US-11-136-527-7433	Sequence 7433, Ap	c 174	13.6	68.0	172111	11	US-11-121-086-28	Sequence 28, Appl
c 102	13.8	69.0	964	7	US-10-454-37-107	Sequence 107, Appl	c 175	13.6	68.0	176760	11	US-11-121-086-51	Sequence 51, Appl
c 103	13.8	69.0	1111	7	US-10-750-187-38728	Sequence 38728, A	c 176	13.6	68.0	184868	11	US-11-121-086-88	Sequence 88, Appl
c 104	13.8	69.0	1111	7	US-10-750-623-38728	Sequence 38728, A	c 177	13.6	68.0	190882	11	US-11-121-086-69	Sequence 69, Appl
c 105	13.8	69.0	1728	7	US-10-750-185-42417	Sequence 42417, A	c 178	13.6	68.0	214000	11	US-11-121-086-69	Sequence 69, Appl
c 106	13.8	69.0	1728	7	US-10-750-623-42417	Sequence 42417, A	c 179	13.6	68.0	214000	11	US-11-096-191-1	Sequence 1, Appl
c 107	13.8	69.0	1737	11	US-11-091-883-28	Sequence 28, Appl	c 180	13.6	68.0	321019	7	US-10-995-561-13204	Sequence 1, Appl
c 108	13.8	69.0	1737	11	US-11-091-883-174	Sequence 174, Appl	c 181	13.6	68.0	1080000	7	US-10-928-446A-1	Sequence 1, Appl
c 109	13.8	69.0	2724	7	US-10-454-437-103	Sequence 103, Appl	c 182	13.6	68.0	1080000	7	US-10-928-446A-181	Sequence 181, Appl
c 110	13.8	69.0	2991	8	US-11-072-512-1527	Sequence 1527, Ap	c 183	13.6	68.0	1080000	7	US-10-928-446A-183	Sequence 183, Appl
c 111	13.8	69.0	91561	11	US-11-124-368A-2896	Sequence 2896, Ap	c 184	13.6	68.0	1080000	7	US-10-928-446A-185	Sequence 185, Appl
c 112	13.8	69.0	91112	7	US-10-995-561-13234	Sequence 13234, A	c 185	13.6	68.0	1080000	7	US-10-928-446A-187	Sequence 187, Appl
c 113	13.8	69.0	169047	11	US-11-121-086-15	Sequence 15, Appl	c 186	13.6	68.0	1080000	7	US-10-928-446A-189	Sequence 189, Appl
c 114	13.8	69.0	340000	11	US-11-121-086-3	Sequence 3, Appl	c 187	13.6	68.0	1080000	7	US-10-928-446A-191	Sequence 191, Appl
c 115	13.6	68.0	25	11	US-11-121-849-496024	Sequence 496024,	c 188	13.6	68.0	1080000	7	US-10-928-446A-193	Sequence 193, Appl
c 116	13.6	68.0	78	7	US-10-310-914A-7492	Sequence 7492, Ap	c 189	13.6	68.0	1080000	7	US-10-928-446A-195	Sequence 195, Appl
c 117	13.6	68.0	90	7	US-10-489-866-34	Sequence 34, Appl	c 190	13.6	68.0	1080000	7	US-10-928-446A-197	Sequence 197, Appl
c 118	13.6	68.0	396	5	US-09-978-360A-141	Sequence 141, Appl	c 191	13.6	68.0	1080000	7	US-10-928-446A-199	Sequence 199, Appl
c 119	13.6	68.0	441	7	US-10-489-866-27	Sequence 27, Appl	c 192	13.6	68.0	1080000	7	US-10-928-446A-201	Sequence 201, Appl
c 120	13.6	68.0	600	7	US-10-750-185-3318	Sequence 3318, Ap	c 193	13.4	67.0	19	9	US-11-101-244-632339	Sequence 632339
c 121	13.6	68.0	600	7	US-10-750-185-20610	Sequence 20610, A	c 194	13.4	67.0	19	10	US-11-083-784-632339	Sequence 632339
c 122	13.6	68.0	600	7	US-10-750-623-3318	Sequence 3318, Ap	c 195	13.4	67.0	50	11	US-11-175-859-36300	Sequence 36300, A
c 123	13.6	68.0	600	7	US-10-750-623-20610	Sequence 20610, A	c 196	13.4	67.0	50	11	US-11-175-859-112676	Sequence 112676
c 124	13.6	68.0	659	7	US-10-750-185-40489	Sequence 40489, A	c 197	13.4	67.0	497	11	US-11-128-061-3015	Sequence 3015, Ap
c 125	13.6	68.0	659	7	US-10-750-623-40489	Sequence 40489, A	c 198	13.4	67.0	497	11	US-11-128-061-6657	Sequence 6657, Ap
c 126	13.6	68.0	736	7	US-10-750-185-47432	Sequence 47432, A	c 199	13.4	67.0	497	11	US-11-128-049-3015	Sequence 3015, Ap
c 127	13.6	68.0	736	7	US-10-750-623-47432	Sequence 47432, A	c 200	13.4	67.0	497	11	US-11-128-049-6657	Sequence 6657, Ap
c 128	13.6	68.0	966	11	US-11-055-822-259	Sequence 259, Appl	c 201	13.4	67.0	1373	7	US-10-750-185-46147	Sequence 46147, A
c 129	13.6	68.0	1092	10	US-11-014-071-2	Sequence 2, Appl	c 202	13.4	67.0	2038	7	US-10-750-623-46147	Sequence 46147, A
c 130	13.6	68.0	1194	7	US-10-957-569-53	Sequence 53, Appl	c 203	13.4	67.0	2038	7	US-10-750-185-36540	Sequence 36540, A
c 131	13.6	68.0	1194	11	US-11-097-589-52	Sequence 52, Appl	c 204	13.4	67.0	2038	7	US-10-750-623-36540	Sequence 36540, A
c 132	13.6	68.0	1272	11	US-11-052-554A-761	Sequence 761, Appl	c 205	13.4	67.0	2186	8	US-11-072-512-146	Sequence 146, Appl
c 133	13.6	68.0	1341	7	US-10-750-185-25598	Sequence 25598, A	c 206	13.4	67.0	2308	7	US-10-510-386-61	Sequence 61, Appl
c 134	13.6	68.0	1341	7	US-10-750-623-25598	Sequence 25598, A	c 207	13.4	67.0	2415	7	US-10-467-657-1929	Sequence 1929, Ap
c 135	13.6	68.0	1352	7	US-10-750-185-27965	Sequence 27965, A	c 208	13.4	67.0	2641	8	US-11-072-512-478	Sequence 478, Ap
c 136	13.6	68.0	1352	7	US-10-750-623-27965	Sequence 27965, A	c 209	13.4	67.0	3204	8	US-11-072-512-1112	Sequence 1112, Ap
c 137	13.6	68.0	1400	11	US-11-136-527-8078	Sequence 8078, Ap	c 210	13.4	67.0	3417	11	US-11-080-991-47	Sequence 47, Appl
c 138	13.6	68.0	1400	11	US-11-128-061-4734	Sequence 4734, Ap	c 211	13.4	67.0	4099	7	US-10-750-185-33532	Sequence 33532, A
c 139	13.6	68.0	1400	11	US-11-128-049-4734	Sequence 4734, Ap	c 212	13.4	67.0	4099	7	US-10-750-623-33532	Sequence 33532, A
c 140	13.6	68.0	1482	7	US-10-750-623-43098	Sequence 43098, A	c 213	13.4	67.0	5009	7	US-10-955-054A-25	Sequence 25, Appl
c 141	13.6	68.0	1482	7	US-10-750-623-43098	Sequence 43098, A	c 214	13.4	67.0	20492	11	US-11-095-668-2	Sequence 2, Appl
c 142	13.6	68.0	1888	11	US-11-136-527-3982	Sequence 3982, A	c 215	13.4	67.0	48203	7	US-10-995-561-13378	Sequence 13378, A
c 143	13.6	68.0	1968	11	US-11-136-527-465	Sequence 465, Appl	c 216	13.4	67.0	98862	11	US-11-121-086-76	Sequence 76, Appl
c 144	13.6	68.0	2015	11	US-11-079-122-8	Sequence 8, Appl	c 217	13.4	67.0	157230	11	US-11-112-908-64	Sequence 64, Appl
c 145	13.6	68.0	2024	11	US-11-079-122-9	Sequence 9, Appl	c 218	13.4	67.0	159660	11	US-11-112-908-43	Sequence 43, Appl
c 146	13.6	68.0	2024	11	US-11-079-122-10	Sequence 10, Appl	c 219	13.4	67.0	162013	11	US-11-150-888-30	Sequence 30, Appl
c 147	13.6	68.0	2185	8	US-11-072-512-1675	Sequence 1675, Ap	c 220	13.4	67.0	170508	11	US-11-112-908-62	Sequence 62, Appl
c 148	13.6	68.0	2253	8	US-11-072-512-658	Sequence 658, Appl	c 221	13.4	67.0	173115	11	US-11-112-908-65	Sequence 65, Appl
c 149	13.6	68.0	2431	11	US-11-000-688-366	Sequence 366, Appl	c 222	13.4	67.0	179597	11	US-11-121-086-91	Sequence 91, Appl
c 150	13.6	68.0	2458	11	US-11-128-061-1092	Sequence 1092, Ap	c 223	13.4	67.0	189252	11	US-11-121-086-54	Sequence 54, Appl
c 151	13.6	68.0	2458	11	US-11-128-049-1092	Sequence 1092, Ap	c 224	13.4	67.0	207600	11	US-11-112-908-31	Sequence 31, Appl
c 152	13.6	68.0	2732	7	US-10-750-185-23160	Sequence 23160, A	c 225	13.4	67.0	260209	7	US-10-933-025-23	Sequence 23, Appl
c 153	13.6	68.0	2732	7	US-10-750-623-23160	Sequence 23160, A	c 226	13.2	66.0	25	11	US-11-121-849-12244	Sequence 12244, A
c 154	13.6	68.0	2768	6	US-10-063-703-15	Sequence 15, Appl	c 227	13.2	66.0	25	11	US-11-121-849-60095	Sequence 60095, A
c 155	13.6	68.0	2768	11	US-11-102-240-15	Sequence 15, Appl	c 228	13.2	66.0	25	11	US-11-121-849-149975	Sequence 149975, A
c 156	13.6	68.0	2815	8	US-11-072-512-75	Sequence 75, Appl	c 229	13.2	66.0	25	11	US-11-121-849-310714	Sequence 310714, A
c 157	13.6	68.0	2843	7	US-10-750-185-64398	Sequence 64398, A	c 230	13.2	66.0	25	11	US-11-121-849-315867	Sequence 315867, A
c 158	13.6	68.0	2843	7	US-10-750-623-64398	Sequence 64398, A	c 231	13.2	66.0	120	7	US-11-136-527-348787	Sequence 348787, A
c 159	13.6	68.0	2917	7	US-10-131-826A-343	Sequence 343, Appl	c 232	13.2	66.0	120	7	US-10-467-657-753	Sequence 753, Appl
c 160	13.6	68.0	2917	11	US-11-176-863-1	Sequence 1, Appl	c 233	13.2	66.0	121	11	US-11-124-367A-4815	Sequence 4815, Ap
c 161	13.6	68.0	2938	7	US-10-750-185-32298	Sequence 32298, A	c 234	13.2	66.0	124	11	US-11-124-367A-4814	Sequence 4814, Ap
c 162	13.6	68.0	2938	7	US-10-750-623-32298	Sequence 32298, A	c 235	13.2	66.0	198	7	US-10-467-657-889	Sequence 889, Appl
c 163	13.6	68.0	3132	7	US-10-475-204-35	Sequence 35, Appl	c 236	13.2	66.0	200	11	US-11-098-686-855	Sequence 855, Appl
c 164	13.6	68.0	3132	11	US-11-136-527-2850	Sequence 2850, Ap	c 237	13.2	66.0	201	7	US-10-995-561-2066	Sequence 2066, Ap
c 165	13.6	68.0	7251	11	US-11-136-527-3027	Sequence 3027, Ap	c 238	13.2	66.0	201	7	US-10-995-561-2069	Sequence 2069, Ap
c 166	13.6	68.0	8833	7	US-10-876-787-5	Sequence 5, Appl	c 239	13.2	66.0	201	7	US-10-995-561-2071	Sequence 2071, Ap
c 167	13.6	68.0	16326	7	US-10-995-561-13416	Sequence 13416, A	c 240	13.2	66.0	201	7	US-10-995-561-19893	Sequence 19893, A



241	13.2	66.0	201	7	US-10-995-561-20076	Sequence 20076, A	C 314	13.2	66.0	1519	11	US-11-094-576-1	Sequence 1, Appl
242	13.2	66.0	201	7	US-10-995-561-20463	Sequence 20463, A	C 315	13.2	66.0	1521	11	US-11-151-847-1	Sequence 1, Appl
243	13.2	66.0	201	7	US-10-995-561-25996	Sequence 25996, A	C 316	13.2	66.0	1752	11	US-11-076-733-12	Sequence 12, Appl
244	13.2	66.0	201	7	US-10-995-561-34264	Sequence 34264, A	C 317	13.2	66.0	1784	7	US-10-750-185-31514	Sequence 31514, A
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OM nucleic - nucleic search, using sw model

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Listing first 500 summaries

Database :

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15: gb\_pl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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102	16.8	80.0	206677	15	AC129085	AC129085 Mus muscu	16.2	77.1	164264	AC123619 Mus muscu
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114	16.4	78.1	110000	1	AP006618_24	Continuation (25 o	16.2	77.1	238587	AC096955 Rattus no
115	16.4	78.1	110000	1	BA000022_21	Continuation (22 o	16.2	77.1	239370	AC096076 Rattus no
116	16.4	78.1	110000	15	CR382131_12	Continuation (13 o	16.2	77.1	24740	AC095193 Rattus no
117	16.4	78.1	163572	8	AC106897	AC106897 Homo sapi	16.2	77.1	257451	AC098508 Rattus no
118	16.4	78.1	169814	8	AC093797	AC093797 Homo sapi	16.2	77.1	259487	AL365322 Mouse DNA
119	16.4	78.1	183146	9	AC116697	AC116697 Mus muscu	16.2	77.1	265372	AC137011 Rattus no
120	16.4	78.1	184392	14	AC155488	AC155488 Bos tauru	16.2	77.1	265957	AC098530 Rattus no
121	16.4	78.1	184483	14	AC155873	AC155873 Bos tauru	16.2	77.1	273693	AC112534 Rattus no
122	16.4	78.1	186895	9	AC115918	AC115918 Mus muscu	16.2	77.1	274150	AC137454 Rattus no
123	16.4	78.1	189650	14	AC149863	AC149863 Papio anu	16.2	77.1	288721	AE003447 Drosophil
124	16.4	78.1	198363	14	AC144410	AC144410 Mus muscu	16.2	77.1	299134	AC128783 Rattus no
125	16.4	78.1	199981	9	AC157787	AC157787 Mus muscu	16.2	77.1	300521	AE017153 Haemophil
126	16.4	78.1	213439	14	AC149849	AC149849 Papio anu	16.2	77.1	313143	AC120453 Rattus no
127	16.4	78.1	236859	14	AC156185	AC156185 Bos tauru	16.2	77.1	346161	BX842651 Bdeliobv
128	16.4	78.1	236859	14	AC156185	AC156185 Bos tauru	16.2	77.1	349688	CR378671 Photobact
129	16.4	78.1	243280	14	AC111948	AC111948 Rattus no	16.2	77.1	349877	AC115218 Rattus no
130	16.4	78.1	244277	14	AC124874	AC124874 Rattus no	16.2	77.1	349877	AC115218 Rattus no
131	16.4	78.1	244389	14	AC111858	AC111858 Rattus no	16.2	77.1	349877	AC115218 Rattus no
132	16.4	78.1	250522	14	AC094765	AC094765 Rattus no	16.2	77.1	349877	AC115218 Rattus no
133	16.4	78.1	251941	14	AC105590	AC105590 Rattus no	16.2	77.1	349877	AC115218 Rattus no
134	16.4	78.1	256868	14	AC128811	AC128811 Rattus no	16.2	77.1	349877	AC115218 Rattus no
135	16.4	78.1	273457	14	AC120751	AC120751 Rattus no	16.2	77.1	349877	AC115218 Rattus no
136	16.4	78.1	277885	14	AC107266	AC107266 Rattus no	16.2	77.1	349877	AC115218 Rattus no
137	16.4	78.1	279959	14	AC118855	AC118855 Rattus no	16.2	77.1	349877	AC115218 Rattus no
138	16.4	78.1	280005	14	AC119021	AC119021 Rattus no	16.2	77.1	349877	AC115218 Rattus no
139	16.2	77.1	524	10	CR383811	CR383811 Arabidops	16.2	77.1	349877	AC115218 Rattus no
140	16.2	77.1	540	15	CNS019P2	AL111951 Botrytis	16.2	77.1	349877	AC115218 Rattus no
141	16.2	77.1	711	10	BV583071	BV583071 G591P6274	16.2	77.1	349877	AC115218 Rattus no
142	16.2	77.1	771	10	BV564199	BV564199 qxc68E07	16.2	77.1	349877	AC115218 Rattus no
143	16.2	77.1	832	10	BV560484	BV560484 qey62G10	16.2	77.1	349877	AC115218 Rattus no
144	16.2	77.1	923	3	AY187356	AY187356 Unculture	16.2	77.1	349877	AC115218 Rattus no
145	16.2	77.1	1433	5	BC095198	BC095198 Danio rer	16.2	77.1	349877	AC115218 Rattus no
146	16.2	77.1	1653	15	AY093612	AY093612 Mycosphae	16.2	77.1	349877	AC115218 Rattus no
147	16.2	77.1	2076	15	AF121229	AF121229 Botryotin	16.2	77.1	349877	AC115218 Rattus no
148	16.2	77.1	10271	1	AE014860	AE014860 Streptoco	16.2	77.1	349877	AC115218 Rattus no
149	16.2	77.1	12811	6	C0576228	C0576228 Sequence	16.2	77.1	349877	AC115218 Rattus no
150	16.2	77.1	13457	1	AE007303	AE007303 Sinorhizo	16.2	77.1	349877	AC115218 Rattus no
151	16.2	77.1	17863	1	AE004642	AE004642 Pseudomon	16.2	77.1	349877	AC115218 Rattus no
152	16.2	77.1	18352	6	C0576227	C0576227 Sequence	16.2	77.1	349877	AC115218 Rattus no
153	16.2	77.1	40150	14	AC020043	AC020043 Drosophil	16.2	77.1	349877	AC115218 Rattus no
154	16.2	77.1	44090	14	AC006784	AC006784 Caenorhab	16.2	77.1	349877	AC115218 Rattus no
155	16.2	77.1	46394	2	CBRG17D06	CBRG17D06	16.2	77.1	349877	AC115218 Rattus no
156	16.2	77.1	58496	14	AC101077	AC101077 Mus muscu	16.2	77.1	349877	AC115218 Rattus no
157	16.2	77.1	58496	14	AC101077	AC101077 Mus muscu	16.2	77.1	349877	AC115218 Rattus no
158	16.2	77.1	66626	2	AC006834	AC006834 Caenorhab	16.2	77.1	349877	AC115218 Rattus no
159	16.2	77.1	93579	14	CT005265_10	Continuation (11 o	16.2	77.1	349877	AC115218 Rattus no
160	16.2	77.1	103552	14	AP007391	AP007391 Lotus cor	16.2	77.1	349877	AC115218 Rattus no
161	16.2	77.1	110000	1	BX571966_24	Continuation (25 o	16.2	77.1	349877	AC115218 Rattus no
162	16.2	77.1	110000	1	CF000031_33	Continuation (34 o	16.2	77.1	349877	AC115218 Rattus no
163	16.2	77.1	110000	14	LMFLCHR26_3	Continuation (4 of	16.2	77.1	349877	AC115218 Rattus no
164	16.2	77.1	114664	15	AC130809	AC130809 Medicago	16.2	77.1	349877	AC115218 Rattus no

C 238	15.8	75.2	284	2	ISU62982	U62982 Ixodes scap	C 311	15.8	75.2	834	3	UPR7654	AJ007654 Unculture
C 239	15.8	75.2	284	2	ISU62983	U62983 Ixodes scap	C 312	15.8	75.2	838	3	AY231320	AY231320 Unculture
C 240	15.8	75.2	285	2	IDU62969	U62969 Ixodes damm	C 313	15.8	75.2	842	2	D88860	D88860 Ixodes pavl
C 241	15.8	75.2	285	2	ISU62977	U62977 Ixodes scap	C 314	15.8	75.2	842	2	D88861	D88861 Ixodes pavl
C 242	15.8	75.2	285	2	ISU62978	U62978 Ixodes scap	C 315	15.8	75.2	843	2	D88859	D88859 Ixodes pavl
C 243	15.8	75.2	285	2	ISU62979	U62979 Ixodes scap	C 316	15.8	75.2	844	2	D88862	D88862 Ixodes pavl
C 244	15.8	75.2	344	3	UNA311428	AJ311428 Unculture	C 317	15.8	75.2	846	3	AY690067	AY690067 Unculture
C 245	15.8	75.2	348	3	UNA311438	AJ311438 Unculture	C 318	15.8	75.2	860	3	AY189644	AY189644 Unculture
C 246	15.8	75.2	400	3	AY143783	AY143783 Unculture	C 319	15.8	75.2	861	13	AY390412	AY390412 Fibropapi
C 247	15.8	75.2	406	3	AY321225	AY321225 Unculture	C 320	15.8	75.2	861	13	AY390416	AY390416 Fibropapi
C 248	15.8	75.2	419	3	AY437572	AY437572 Unculture	C 321	15.8	75.2	863	2	IXORD8NA	L22265 Ixodes damm
C 249	15.8	75.2	427	3	AY488098	AY488098 Unculture	C 322	15.8	75.2	875	2	D88886	D88886 Ixodes tanu
C 250	15.8	75.2	450	3	AY930163	AY930163 Unculture	C 323	15.8	75.2	876	2	AB032834	AB032834 Ixodes pe
C 251	15.8	75.2	450	3	AY930292	AY930292 Unculture	C 324	15.8	75.2	876	2	AB032835	AB032835 Ixodes pe
C 252	15.8	75.2	450	3	AY930401	AY930401 Unculture	C 325	15.8	75.2	876	2	AB032836	AB032836 Ixodes pe
C 253	15.8	75.2	451	3	AY930301	AY930301 Unculture	C 326	15.8	75.2	876	2	D88885	D88885 Ixodes tanu
C 254	15.8	75.2	451	3	AY930339	AY930339 Unculture	C 327	15.8	75.2	876	2	D88887	D88887 Ixodes tanu
C 255	15.8	75.2	452	3	AY930158	AY930158 Unculture	C 328	15.8	75.2	877	2	AB032837	AB032837 Ixodes pe
C 256	15.8	75.2	502	3	AY932443	AY932443 Unculture	C 329	15.8	75.2	879	2	AB032838	AB032838 Ixodes pe
C 257	15.8	75.2	507	6	AR101737	AR101737 Sequence	C 330	15.8	75.2	943	15	AK060449	AK060449 Oryza sat
C 258	15.8	75.2	507	6	AR437542	AR437542 Sequence	C 331	15.8	75.2	960	3	AB094185	AB094185 Unculture
C 259	15.8	75.2	515	3	AY493213	AY493213 Unculture	C 332	15.8	75.2	962	3	AY943019	AY943019 Unculture
C 260	15.8	75.2	531	3	AY493221	AY493221 Unculture	C 333	15.8	75.2	962	3	AY943036	AY943036 Unculture
C 261	15.8	75.2	533	15	AB112476	AB112476 Atriplex	C 334	15.8	75.2	992	3	AY897262	AY897262 Unculture
C 262	15.8	75.2	537	2	AF019643	AF019643 Ixodes ri	C 335	15.8	75.2	1005	6	AR548011	AR548011 Sequence
C 263	15.8	75.2	552	3	AY391012	AY391012 Unculture	C 336	15.8	75.2	1011	1	AY550036	AY550036 Veillonel
C 264	15.8	75.2	556	3	AY668749	AY668749 Unculture	C 337	15.8	75.2	1028	3	DQ083725	DQ083725 Unculture
C 265	15.8	75.2	586	3	AF507540	AF507540 Unculture	C 338	15.8	75.2	1029	3	DQ083705	DQ083705 Unculture
C 266	15.8	75.2	613	3	AY742846	AY742846 Unculture	C 339	15.8	75.2	1037	3	AY920148	AY920148 Unculture
C 267	15.8	75.2	620	3	DQ014941	DQ014941 Unculture	C 340	15.8	75.2	1066	3	AF530329	AF530329 Unculture
C 268	15.8	75.2	626	3	AF507719	AF507719 Unculture	C 341	15.8	75.2	1066	3	AY919969	AY919969 Novel pol
C 269	15.8	75.2	675	6	CQ750233	CQ750233 Sequence	C 342	15.8	75.2	1119	6	BD164875	BD164875 Novel pol
C 270	15.8	75.2	687	3	AY668613	AY668613 Unculture	C 343	15.8	75.2	1119	6	AX122758	AX122758 Sequence
C 271	15.8	75.2	698	3	AY668744	AY668744 Unculture	C 344	15.8	75.2	1140	3	AF201991	AF201991 Unculture
C 272	15.8	75.2	768	3	AY851860	AY851860 Unculture	C 345	15.8	75.2	1160	1	AF421132	AF421132 Aphanirom
C 273	15.8	75.2	771	10	BV604059	BV604059 S217Pe163	C 346	15.8	75.2	1166	2	AB105168	AB105168 Ixodes ac
C 274	15.8	75.2	782	3	AY627523	AY627523 Unculture	C 347	15.8	75.2	1196	3	AY592112	AY592112 Unculture
C 275	15.8	75.2	782	3	AY689550	AY689550 Unculture	C 348	15.8	75.2	1200	2	IXORDBNB	L22266 Ixodes damm
C 276	15.8	75.2	787	3	AY694689	AY694689 Unculture	C 349	15.8	75.2	1200	2	IXORDBNB	L22271 Ixodes damm
C 277	15.8	75.2	808	2	D88880	D88880 Ixodes rici	C 350	15.8	75.2	1201	2	IXORDBNH	L22272 Ixodes damm
C 278	15.8	75.2	809	2	D88881	D88881 Ixodes rici	C 351	15.8	75.2	1203	2	IXORDBNH	L22268 Ixodes damm
C 279	15.8	75.2	813	2	D88882	D88882 Ixodes rici	C 352	15.8	75.2	1204	2	IXORDBNF	L22270 Ixodes damm
C 280	15.8	75.2	817	2	D88835	D88835 Ixodes asan	C 353	15.8	75.2	1204	2	IXORDBNJ	L22274 Ixodes scap
C 281	15.8	75.2	817	2	D88836	D88836 Ixodes asan	C 354	15.8	75.2	1205	2	IXORDBNK	L22275 Ixodes scap
C 282	15.8	75.2	817	2	D88838	D88838 Ixodes asan	C 355	15.8	75.2	1205	2	IXORDBNK	L22278 Ixodes paci
C 283	15.8	75.2	817	2	D88839	D88839 Ixodes asan	C 356	15.8	75.2	1208	2	IXORDBNL	L22273 Ixodes scap
C 284	15.8	75.2	817	2	D88884	D88884 Ixodes rici	C 357	15.8	75.2	1208	3	AY592109	AY592109 Unculture
C 285	15.8	75.2	818	2	D88878	D88878 Ixodes rici	C 358	15.8	75.2	1210	2	IXORDBNL	L22276 Ixodes scap
C 286	15.8	75.2	819	2	D88837	D88837 Ixodes asan	C 359	15.8	75.2	1227	3	AY592099	AY592099 Unculture
C 287	15.8	75.2	819	2	D88879	D88879 Ixodes rici	C 360	15.8	75.2	1231	2	ISRRNAGP	XG3868 I. scapulari
C 288	15.8	75.2	820	2	D88883	D88883 Ixodes rici	C 361	15.8	75.2	1242	6	AR608618	AR608618 Sequence
C 289	15.8	75.2	821	3	D88871	D88871 Ixodes pers	C 362	15.8	75.2	1242	6	AX066269	AX066269 Sequence
C 290	15.8	75.2	821	3	AY434018	AY434018 Unculture	C 363	15.8	75.2	1245	2	IXORDBNO	L22279 Ixodes paci
C 291	15.8	75.2	822	2	D88877	D88877 Ixodes pers	C 364	15.8	75.2	1247	2	IXORDBNM	L22277 Ixodes paci
C 292	15.8	75.2	823	2	D88866	D88866 Ixodes pers	C 365	15.8	75.2	1254	3	AY592678	AY592678 Unculture
C 293	15.8	75.2	823	2	D88872	D88872 Ixodes pers	C 366	15.8	75.2	1280	3	AY991092	AY991092 Unculture
C 294	15.8	75.2	824	2	D88865	D88865 Ixodes pers	C 367	15.8	75.2	1283	1	AY991095	AY991095 Unculture
C 295	15.8	75.2	824	2	D88867	D88867 Ixodes pers	C 368	15.8	75.2	1307	1	AY514996	AY514996 Veillonel
C 296	15.8	75.2	824	2	D88868	D88868 Ixodes pers	C 369	15.8	75.2	1307	3	UBA519379	UBA519379 Unculture
C 297	15.8	75.2	824	2	D88870	D88870 Ixodes pers	C 370	15.8	75.2	1323	3	UBA519387	UBA519387 Unculture
C 298	15.8	75.2	824	2	D88873	D88873 Ixodes pers	C 371	15.8	75.2	1329	6	CQ983447	CQ983447 Sequence
C 299	15.8	75.2	825	2	D88863	D88863 Ixodes pers	C 372	15.8	75.2	1334	3	UBA519389	UBA519389 Unculture
C 300	15.8	75.2	825	2	D88864	D88864 Ixodes pers	C 373	15.8	75.2	1335	3	DQ015324	DQ015324 Unculture
C 301	15.8	75.2	825	2	D88869	D88869 Ixodes pers	C 374	15.8	75.2	1335	3	UVE401122	UVE401122 Unculture
C 302	15.8	75.2	825	2	D88874	D88874 Ixodes pers	C 375	15.8	75.2	1338	3	AY991920	AY991920 Unculture
C 303	15.8	75.2	825	2	D88875	D88875 Ixodes pers	C 376	15.8	75.2	1340	3	AY991861	AY991861 Unculture
C 304	15.8	75.2	828	2	D88876	D88876 Ixodes pers	C 377	15.8	75.2	1343	1	AY211542	AY211542 Veillonel
C 305	15.8	75.2	829	2	D88846	D88846 Ixodes nipp	C 378	15.8	75.2	1345	3	DQ015618	DQ015618 Unculture
C 306	15.8	75.2	829	2	D88849	D88849 Ixodes nipp	C 379	15.8	75.2	1348	3	UVE401120	UVE401120 Unculture
C 307	15.8	75.2	830	2	D88847	D88847 Ixodes nipp	C 380	15.8	75.2	1349	3	AY214896	AY214896 Unculture
C 308	15.8	75.2	830	2	D88848	D88848 Ixodes nipp	C 381	15.8	75.2	1350	3	AY977924	AY977924 Unculture
C 309	15.8	75.2	830	2	D88850	D88850 Ixodes nipp	C 382	15.8	75.2	1350	3	AY978161	AY978161 Unculture
C 310	15.8	75.2	830	2	D88851	D88851 Ixodes nipp	C 383	15.8	75.2	1350	3	DQ015251	DQ015251 Unculture

C 384	15.8	75.2	1357	1	AV571667	AY571667 Veillonel
C 385	15.8	75.2	1357	3	AY922066	AY922066 Unculture
C 386	15.8	75.2	1365	3	AY882792	AY882792 Unculture
C 387	15.8	75.2	1366	3	AY401119	AY401119 Unculture
C 388	15.8	75.2	1375	1	AY433639	AY433639 Veillonel
C 389	15.8	75.2	1382	1	AY571668	AY571668 Veillonel
C 390	15.8	75.2	1382	3	AY984660	AY984660 Unculture
C 391	15.8	75.2	1382	3	AY984994	AY984994 Unculture
C 392	15.8	75.2	1382	3	AY985003	AY985003 Unculture
C 393	15.8	75.2	1392	15	AY626046	AY626046 Euglena v
C 394	15.8	75.2	1392	15	AF289251	AF289251 Phacus pl
C 395	15.8	75.2	1396	1	AY355138	AY355138 Veillonel
C 396	15.8	75.2	1400	1	AY349641	AY349641 Veillonel
C 397	15.8	75.2	1402	1	AY355140	AY355140 Veillonel
C 398	15.8	75.2	1406	1	AB023836	AB023836 Lactobaci
C 399	15.8	75.2	1406	1	AB023837	AB023837 Lactobaci
C 400	15.8	75.2	1409	1	AF439640	AF439640 Veillonel
C 401	15.8	75.2	1413	1	AY581272	AY581272 Lactobaci
C 402	15.8	75.2	1429	3	AY289386	AY289386 Unculture
C 403	15.8	75.2	1429	3	AY221727	AY221727 Lepocincl
C 404	15.8	75.2	1432	3	AY684392	AY684392 Unculture
C 405	15.8	75.2	1439	1	AF473835	AF473835 Acidamino
C 406	15.8	75.2	1440	3	AF371738	AF371738 Unculture
C 407	15.8	75.2	1449	3	AY289387	AY289387 Unculture
C 408	15.8	75.2	1452	3	AY289390	AY289390 Unculture
C 409	15.8	75.2	1456	1	LRP251560	AY251560 Lactobaci
C 410	15.8	75.2	1458	3	DQ130049	DQ130049 Unculture
C 411	15.8	75.2	1459	3	AY995751	AY995751 Veillonel
C 412	15.8	75.2	1459	3	AY995752	AY995752 Veillonel
C 413	15.8	75.2	1459	3	AY995753	AY995753 Veillonel
C 414	15.8	75.2	1459	3	AY995754	AY995754 Veillonel
C 415	15.8	75.2	1459	3	AY995757	AY995757 Veillonel
C 416	15.8	75.2	1459	3	AY995758	AY995758 Veillonel
C 417	15.8	75.2	1459	3	AY995761	AY995761 Veillonel
C 418	15.8	75.2	1459	3	AY995762	AY995762 Veillonel
C 419	15.8	75.2	1459	3	AY995763	AY995763 Veillonel
C 420	15.8	75.2	1459	3	AY995764	AY995764 Veillonel
C 421	15.8	75.2	1459	3	AY995766	AY995766 Veillonel
C 422	15.8	75.2	1460	3	AY995755	AY995755 Veillonel
C 423	15.8	75.2	1460	3	AY995756	AY995756 Veillonel
C 424	15.8	75.2	1460	3	AY995759	AY995759 Veillonel
C 425	15.8	75.2	1460	3	AY995760	AY995760 Veillonel
C 426	15.8	75.2	1465	1	RRP318889	AJ18889 Rumnococ
C 427	15.8	75.2	1465	1	URA295666	AJ295666 Bacterium
C 428	15.8	75.2	1467	3	AF371939	AF371939 Unculture
C 429	15.8	75.2	1473	1	AF049743	AF049743 Lactobaci
C 430	15.8	75.2	1484	3	AF287781	AF287781 Veillonel
C 431	15.8	75.2	1490	3	AF366266	AF366266 Unculture
C 432	15.8	75.2	1492	1	AF186072	AF186072 Veillonel
C 433	15.8	75.2	1495	3	AY328596	AY328596 Unculture
C 434	15.8	75.2	1497	1	AY995767	AY995767 Veillonel
C 435	15.8	75.2	1498	1	AY995768	AY995768 Veillonel
C 436	15.8	75.2	1500	1	AY995770	AY995770 Veillonel
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REFERENCE	1					
AUTHORS	Kmiec, E. B., Gamber, H. B., Rice, M. C. and Kim, J.					
TITLE	Targeted chromosomal genomic alterations in plants using modified single stranded oligonucleotides					
JOURNAL	Patent: WO 0192512-A 109 06-DEC-2001; UNIVERSITY OF DELAWARE (US)					
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Hordeum vulgare  
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REFERENCE  
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AUTHORS Kmiec, E. B., Gamber, H. B., Rice, M. C. and Kim, J.  
TITLE Targeted chromosomal genomic alterations in plants using modified single stranded oligonucleotides  
JOURNAL Patent: WO 0192512-A 109 06-DEC-2001; UNIVERSITY OF DELAWARE (US)

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GenCore version 5.1.7  
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Searched: 4996997 seqs, 3332346308 residues

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Maximum Match 100%

Listing first 500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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18	18.4	87.6	1673	10 ADF50216	Adf50216 Partial A
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139	15.2	72.4	1140	14	AEA56119	Aea56119 Streptoco	c 212	14.8	70.5	210	2	AAV19506	Aav19506 Retrovira
c 140	15.2	72.4	1406	13	ADS49435	Ads49435 Bacterial	c 213	14.8	70.5	267	4	AAH05995	Aah05995 Human cDN
141	15.2	72.4	2000	8	ADA71634	Ada71634 Rice gene	c 214	14.8	70.5	394	12	ADM41048	Adm41048 Human mam
142	15.2	72.4	2176	4	ABL09243	Abi09243 Drosophil	c 215	14.8	70.5	397	9	ACH20720	Ach20720 Human adu
143	15.2	72.4	2317	4	ABL09065	Abi09065 Drosophil	c 216	14.8	70.5	452	5	AAH84412	Aah84412 DNA enco
144	15.2	72.4	2326	4	ABL18583	Abi18583 Drosophil	c 217	14.8	70.5	488	12	ADM41047	Adm41047 Human mam
145	15.2	72.4	3809	13	ADX60485	Adx60485 Plant ful	c 218	14.8	70.5	488	9	ABX78281	Abx78281 Human imi
c 146	15.2	72.4	3914	12	ADO35564	Ado35564 Novel mou	c 219	14.8	70.5	488	12	ADM41046	Adm41046 Human mam
c 147	15.2	72.4	4017	5	AAH79973	Aah79973 DNA enco	c 220	14.8	70.5	557	13	ADQ58536	Adq58536 Novel can
148	15.2	72.4	4017	5	AAH79973	Aah79973 DNA enco	c 221	14.8	70.5	586	9	ABX78282	Abx78282 Human imi
149	15.2	72.4	4052	13	ADR08030	Adr08030 Full leng	c 222	14.8	70.5	621	13	ADO33776	Ado33776 Plant ful
c 150	15.2	72.4	4320	2	AAAT33388	Aat33388 DNA enco	c 223	14.8	70.5	634	9	ABX78283	Abx78283 Human imi
c 151	15.2	72.4	4580	4	ABL09064	Abi09064 Drosophil	c 224	14.8	70.5	681	4	ABL28799	Abi28799 Drosophil
152	15.2	72.4	4950	4	ABL18582	Abi18582 Drosophil	c 225	14.8	70.5	698	4	AAH03196	Aah03196 Human cDN
153	15.2	72.4	5022	4	ABL09242	Abi09242 Drosophil	c 226	14.8	70.5	726	11	ADJ11689	Adj11689 Rice DNA
154	15.2	72.4	5700	14	ADM94099	Adm94099 Staphyloc	c 227	14.8	70.5	755	5	AAH75159	Aah75159 Nucleotid
155	15.2	72.4	6336	6	ABL67080	Abi67080 Thyroid c	c 228	14.8	70.5	900	13	ADR51256	Adr51256 Anti-biof
156	15.2	72.4	6336	6	ABN95039	Abn95039 Gene #153	229	14.8	70.5	964	4	AAF71191	Aaf71191 Coryneb
157	15.2	72.4	6730	2	AAV74362	Aav74362 Staphyloc	c 230	14.8	70.5	1178	13	ADX65310	Adx65310 Plant ful
158	15.2	72.4	7174	2	AAV52322	Aav52322 Streptoco	231	14.8	70.5	1197	10	ADC36525	Adc36525 Weed cont
159	15.2	72.4	9443	12	ADQ17277	Adq17277 Human sof	c 232	14.8	70.5	1383	11	ABD12593	Abd12593 Pseudomon
c 160	15.2	72.4	9495	12	ADQ22031	Adq22031 Human sof	233	14.8	70.5	1470	4	AAI58954	Aai58954 Human pol
161	15.2	72.4	10580	4	AAK69427	Aak69427 Human imm	234	14.8	70.5	1470	5	ADQ99176	Adq99176 DNA enco
c 162	15.2	72.4	10614	4	AAH46259	Aah46259 DNA enco	235	14.8	70.5	1470	9	ADM48936	Adm48936 Novel hum
c 163	15.2	72.4	17200	8	AAH37025	Aah37025 Human mus	c 236	14.8	70.5	1626	11	ADM07041	Adm07041 Aspergill
c 164	15.2	72.4	17200	8	ABX60013	Abx60013 cDNA enco	c 237	14.8	70.5	1626	11	ADM07040	Adm07040 Aspergill
c 165	15.2	72.4	17200	12	ADJ30763	Adj30763 Human mus	c 238	14.8	70.5	1629	11	ADM07153	Adm07153 Aspergill



C 385	14.4	68.6	41	10	ACF79781	Acf79781 Maize ace
C 386	14.4	68.6	60	6	ABN35996	Abn35996 Human apl
C 387	14.4	68.6	96	6	ABL75702	AbL75702 Corn tass
C 388	14.4	68.6	121	6	ABK24725	AbK24725 Glyphosat
C 389	14.4	68.6	121	6	ABK24922	AbK24922 Glyphosat
C 390	14.4	68.6	121	6	ABK24721	AbK24721 Glyphosat
C 391	14.4	68.6	121	6	ABK24834	AbK24834 Glyphosat
C 392	14.4	68.6	121	6	ABK24905	AbK24905 Glyphosat
C 393	14.4	68.6	121	6	ABK24921	AbK24921 Glyphosat
C 394	14.4	68.6	121	6	ABK24765	AbK24765 Glyphosat
C 395	14.4	68.6	121	6	ABK24833	AbK24833 Glyphosat
C 396	14.4	68.6	121	6	ABK24906	AbK24906 Glyphosat
C 397	14.4	68.6	121	6	ABK24766	AbK24766 Glyphosat
C 398	14.4	68.6	121	6	ABK24726	AbK24726 Glyphosat
C 399	14.4	68.6	121	6	ABK24722	AbK24722 Glyphosat
C 400	14.4	68.6	121	12	ADN43416	Adn43416 Mutant ce
C 401	14.4	68.6	121	12	ADN43417	Adn43417 Mutant ce
C 402	14.4	68.6	121	12	ADN43524	Adn43524 Mutant ce
C 403	14.4	68.6	121	12	ADN43412	Adn43412 Mutant ce
C 404	14.4	68.6	121	12	ADN43457	Adn43457 Mutant ce
C 405	14.4	68.6	121	12	ADN43525	Adn43525 Mutant ce
C 406	14.4	68.6	121	12	ADN43597	Adn43597 Mutant ce
C 407	14.4	68.6	121	12	ADN43612	Adn43612 Mutant ce
C 408	14.4	68.6	121	12	ADN43456	Adn43456 Mutant ce
C 409	14.4	68.6	121	12	ADN43596	Adn43596 Mutant ce
C 410	14.4	68.6	121	12	ADN43413	Adn43413 Mutant ce
C 411	14.4	68.6	121	12	ADN43613	Adn43613 Mutant ce
C 412	14.4	68.6	142	6	ABL63338	AbL63338 Breast ca
C 413	14.4	68.6	142	6	ABL65239	AbL65239 Lung canc
C 414	14.4	68.6	142	6	ABL64712	AbL64712 Lung canc
C 415	14.4	68.6	142	6	ABL62036	AbL62036 Colon ade
C 416	14.4	68.6	142	6	ABL66304	AbL66304 Lung canc
C 417	14.4	68.6	178	8	ADA05697	Ada05697 Human NOV
C 418	14.4	68.6	178	12	ADN62861	Adn62861 Human NOV
C 419	14.4	68.6	202	12	ACH88274	Ach88274 Human gen
C 420	14.4	68.6	288	8	ADA05689	Ada05689 Human NOV
C 421	14.4	68.6	288	12	ADN62853	Adn62853 Human NOV
C 422	14.4	68.6	326	12	ADP93981	Adp93981 Corton ex
C 423	14.4	68.6	371	9	ACH50344	Ach50344 Human leu
C 424	14.4	68.6	371	9	ACH50483	Ach50483 Human leu
C 425	14.4	68.6	374	9	ACH50394	Ach50394 Human leu
C 426	14.4	68.6	385	6	ABL83550	AbL83550 Human ova
C 427	14.4	68.6	432	6	ABQ59879	Abq59879 Human col
C 428	14.4	68.6	436	8	ADA05699	Ada05699 Human NOV
C 429	14.4	68.6	436	12	ADN62863	Adn62863 Human NOV
C 430	14.4	68.6	437	10	ADK61199	Adk61199 Ovarian c
C 431	14.4	68.6	445	8	ADA05691	Ada05691 Human NOV
C 432	14.4	68.6	451	14	ACL60407	AcL60407 Human col
C 433	14.4	68.6	478	13	ACN47100	Acn47100 Cotton pr
C 434	14.4	68.6	484	8	ADA05687	Ada05687 Human NOV
C 435	14.4	68.6	484	12	ADN62851	Adn62851 Human NOV
C 436	14.4	68.6	492	4	AAK84595	Aak84595 Human imm
C 437	14.4	68.6	494	4	AAK84594	Aak84594 Human imm
C 438	14.4	68.6	534	4	AAI01745	Aai01745 Human rep
C 439	14.4	68.6	534	4	ABL97038	AbL97038 Human tes
C 440	14.4	68.6	535	8	ACC60276	Acc60276 Rice leaf
C 441	14.4	68.6	551	13	ACN47084	Acn47084 Cotton pr
C 442	14.4	68.6	581	12	ACH74574	Ach74574 Human gen
C 443	14.4	68.6	631	5	ABY01084	AbY01084 Human pro
C 444	14.4	68.6	648	13	ADS59743	AdS59743 Bacterial
C 445	14.4	68.6	648	13	ADS62762	AdS62762 Bacterial
C 446	14.4	68.6	654	5	ABV10253	Abv10253 Human pro
C 447	14.4	68.6	676	5	ABV40393	Abv40393 Human pro
C 448	14.4	68.6	676	5	ABV31424	Abv31424 Human pro
C 449	14.4	68.6	704	3	AAF15215	Aaf15215 Trichoder
C 450	14.4	68.6	704	13	ADU59256	AdU59256 Trichoder
C 451	14.4	68.6	704	14	ADZ97259	Adz97259 Trichoder
C 452	14.4	68.6	783	10	ADD09102	Add09102 Human kal
C 453	14.4	68.6	783	14	ADY52304	Ady52304 Kallikrei
C 454	14.4	68.6	792	2	AAK80905	Aak80905 Human cdn
C 455	14.4	68.6	809	5	AAK87560	Aak87560 DNA encod
C 456	14.4	68.6	845	8	ADA05701	Ada05701 Human NOV
C 457	14.4	68.6	845	12	ADN62865	Adn62865 Human NOV
C 458	14.4	68.6	868	3	AAZ44182	Aaz44182 Human neu
C 459	14.4	68.6	868	13	ADR72884	Adr72884 Human ova
C 460	14.4	68.6	905	2	AAZ11029	Aaz11029 Human aer
C 461	14.4	68.6	906	5	AAS76564	Aas76564 DNA encod
C 462	14.4	68.6	942	2	AAZ11030	Aaz11030 Human ber
C 463	14.4	68.6	988	6	ABZ35510	Abz35510 Human gen
C 464	14.4	68.6	990	11	ABD03685	Abd03685 Pseudomon
C 465	14.4	68.6	994	2	AAZ87155	Aaz87155 Human pro
C 466	14.4	68.6	994	6	ABZ35501	Abz35501 Human gen
C 467	14.4	68.6	999	2	AAZ34225	Aaz34225 Human pro
C 468	14.4	68.6	999	3	AAC78556	Aac78556 Human PRO
C 469	14.4	68.6	999	4	AAE21441	Aae21441 Human cdn
C 470	14.4	68.6	999	4	AAC97467	Aac97467 Human ang
C 471	14.4	68.6	999	6	ABL88107	AbL88107 Human PRO
C 472	14.4	68.6	999	6	ABK28589	AbK28589 Human DNA
C 473	14.4	68.6	999	6	ABL95596	AbL95596 Human ang
C 474	14.4	68.6	999	8	ACA63793	Aca63793 Novel hum
C 475	14.4	68.6	999	8	ACA03800	Aca03800 CDNA enco
C 476	14.4	68.6	999	8	ACA71957	Aca71957 Human sec
C 477	14.4	68.6	999	8	ABX89338	Abx89338 DNA encod
C 478	14.4	68.6	999	8	ABX92597	Abx92597 CDNA enco
C 479	14.4	68.6	999	8	ACD41992	AcD41992 Human sec
C 480	14.4	68.6	999	8	ACA66338	Aca66338 Human cdn
C 481	14.4	68.6	999	8	ACA04221	Aca04221 Human cdn
C 482	14.4	68.6	999	9	ADA45914	Ada45914 Novel hum
C 483	14.4	68.6	999	9	ADA76345	Ada76345 Human PRO
C 484	14.4	68.6	999	9	ADA18995	Ada18995 Human PRO
C 485	14.4	68.6	999	9	ADA61618	Ada61618 Homo bapi
C 486	14.4	68.6	999	9	ADB19403	AdB19403 Novel hum
C 487	14.4	68.6	999	9	ADB27944	AdB27944 CDNA enco
C 488	14.4	68.6	999	9	ADA86423	Ada86423 Novel hum
C 489	14.4	68.6	999	9	ADB15987	AdB15987 Human PRO
C 490	14.4	68.6	999	9	ADA47773	Ada47773 Human PRO
C 491	14.4	68.6	999	9	ADA67568	Ada67568 Human PRO
C 492	14.4	68.6	999	9	ADB30575	AdB30575 CDNA enco
C 493	14.4	68.6	999	9	ADA85871	Ada85871 Novel hum
C 494	14.4	68.6	999	9	ADA97083	Ada97083 Human PRO
C 495	14.4	68.6	999	9	ADA79387	Ada79387 Human PRO
C 496	14.4	68.6	999	9	ADA87526	Ada87526 Novel hum
C 497	14.4	68.6	999	9	ADB16728	AdB16728 Human PRO
C 498	14.4	68.6	999	9	ADA91820	Ada91820 Novel hum
C 499	14.4	68.6	999	9	ADB14883	AdB14883 Human PRO
C 500	14.4	68.6	999	14	AEBl4112	Aebi4112 Cancer ce

## ALIGNMENTS

RESULT 1  
ACC00302  
ID ACC00302 standard; cdna; 369 BP.  
XX  
XX ACC00302;  
XX  
XX  
DT 20-JUN-2003 (first entry)  
XX  
DE Consensus Einkorn sequence.  
XX  
KW Wheat; plant; IMI nucleic acid; acetoxyhydroxyacid synthase; AHAS;  
imidazolinone resistance; Einkorn IMI3; ss.  
XX  
OS Synthetic.  
XX  
FN WO2003014356-A1.  
XX  
PD 20-FEB-2003.  
XX  
PF 10-JUL-2002; 2002WO-CA001050.  
XX  
PR 09-AUG-2001; 2001US-0311180P.  
XX  
PA (UYSA-) UNIV SASKATCHEWAN.  
XX

Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	18.4	87.6		367	5	BQ762109	BQ762109 EBpi01_SQ
2	18.4	87.6		420	1	AJ475726	AJ475726 AJA7475736
3	18.4	87.6		429	5	BU972552	BU972552 HB21P15r
C	18.4	87.6		438	1	AU089946	AU089946 AU089946
5	18.4	87.6		460	2	BF200418	BF200418 WHR32257_H
C	18.4	87.6		462	8	CX629678	CX629678 GCW003B24
7	18.4	87.6		485	6	CA721426	CA721426 wdk9n.pk0
8	18.4	87.6		492	6	CA741112	CA741112 wem1c.pk0
9	18.4	87.6		517	5	CA012924	CA012924 HT06N21r
10	18.4	87.6		526	1	AJ610886	AJ610886 AJ610886
C	11	18.4	87.6	528	1	AV942818	AV942818 AV942818
12	18.4	87.6		530	2	BE417248	BE417248 MUG018_C0
13	18.4	87.6		536	6	CAT73555	CAT73555 wpl1s.pk0
C	14	18.4	87.6	543	5	BU985874	BU985874 HF08O07r
C	15	18.4	87.6	560	6	CAT75522	CAT75522 wpl1s.pk0
C	16	18.4	87.6	568	5	CA001128	CA001128 HS18N04u
C	17	18.4	87.6	568	5	CA001528	CA001528 HS17M10u
C	18	18.4	87.6	593	3	BJ218387	BJ218387 BJ218387
C	19	18.4	87.6	614	5	BU989646	BU989646 HF22F02r
C	20	18.4	87.6	615	1	AV936190	AV936190 AV936190
21	18.4	87.6		615	7	CV057250	CV057250 BNEL25f6
C	22	18.4	87.6	620	3	BJ468205	BJ468205 BJ468205

96	16.8	80.0	4614	4	AK083696	AK083696 Mus muscu	c 169	16	76.2	507	1	AW202598	AW202598 f19d06.y
c 97	16.4	78.1	344	10	C2015728	CH240_512	16	16	76.2	521	3	B1813072	B1813072 1003G07.O
c 98	16.4	78.1	416	9	CC322951	OGRA3N35TV	171	16	76.2	619	1	AU056467	AU056467 AU056467
c 99	16.4	78.1	425	3	BP816087	BP816087 BP816087	172	16	76.2	672	8	DN199584	USDA-FP_1
c 100	16.4	78.1	430	10	CG177440	PUGWG60TD	173	16	76.2	707	10	CZ134481	OR_EBA002
c 101	16.4	78.1	525	8	DR599473	EST989601	174	16	76.2	714	10	CL838248	OR_CBA006
c 102	16.4	78.1	543	10	C2911651	C2911651 4012007D0	175	16	76.2	727	10	CL748539	OR_BBA011
c 103	16.4	78.1	571	8	DR623627	EST101375	176	16	76.2	744	7	CO123150	GR_EB05C
c 104	16.4	78.1	605	6	CA380041	CA380041 659258 NC	177	15.8	75.2	183	9	BH791015	SALK_0583
c 105	16.4	78.1	629	5	BX299129	BX299129 BX299129	178	15.8	75.2	239	6	CB089499	SP24E05.G
c 106	16.4	78.1	630	5	BX299130	BX299130 BX299130	179	15.8	75.2	313	7	CK125179	BES182410
c 107	16.4	78.1	653	6	CA215664	CA215664 SCRLAD114	180	15.8	75.2	328	2	BF061906	7K68905.x
c 108	16.4	78.1	660	8	DR598580	EST988709	181	15.8	75.2	343	6	CB089767	CB089767 gp28e09.g
c 109	16.4	78.1	670	10	C2911679	C2911679 4012007E0	182	15.8	75.2	350	10	BX944502	Arabidops
c 110	16.4	78.1	672	6	CA350697	621554 NC	183	15.8	75.2	361	8	DR063138	iq26b05.g
c 111	16.4	78.1	683	6	CA344872	675353 NC	184	15.8	75.2	364	5	BX300574	BY300574
c 112	16.4	78.1	689	5	BX321023	BX321023 BX321023	185	15.8	75.2	370	6	CF181337	818151 MA
c 113	16.4	78.1	696	10	C2911338	C2911338 4012006B0	186	15.8	75.2	370	6	CF359894	821175 MA
c 114	16.4	78.1	711	7	CK447168	CK447168 N8A8.SP6	187	15.8	75.2	384	2	BB651494	BB651494 BB651494
c 115	16.4	78.1	717	7	CR369478	CR369478 CR369478	188	15.8	75.2	386	10	CE571246	tigr-g88-
c 116	16.4	78.1	727	6	CA074490	CA074490 SCEZAM108	189	15.8	75.2	437	10	CZ642818	OM_Ba018
c 117	16.4	78.1	732	5	BX867147	BX867147 BX867147	190	15.8	75.2	457	6	CB089667	SP27E10.G
c 118	16.4	78.1	734	8	CK723145	CK723145 1330518 N	191	15.8	75.2	471	3	BM000608	1031090A0
c 119	16.4	78.1	739	5	BX321024	BX321024 BX321024	192	15.8	75.2	476	6	CA998485	S345E.CO1
c 120	16.4	78.1	753	5	BX918202	BX918202 BX918202	193	15.8	75.2	490	2	BE743353	601573272
c 121	16.4	78.1	766	6	CA213596	CA213596 SCQSB114	194	15.8	75.2	491	1	AA722004	zh17E02.B
c 122	16.4	78.1	784	9	CC406482	CC406482 FUERF63TD	195	15.8	75.2	505	9	BZ455323	BONCA43TR
c 123	16.4	78.1	806	8	DR649474	EST103959	196	15.8	75.2	515	1	AV834751	AV834751
c 124	16.4	78.1	810	10	CG096767	CG096767 FUIIDV33TB	197	15.8	75.2	519	3	BJ020156	BJ020156
c 125	16.4	78.1	892	9	BZ577223	meH2_5309	198	15.8	75.2	523	8	DR062316	1q15d03.g
c 126	16.4	78.1	895	2	BG109955	BG109955 602379521	199	15.8	75.2	530	10	CE596889	tigr-g88-
c 127	16.4	78.1	896	10	C2331036	C2331036 ZMMBP0038	200	15.8	75.2	531	5	BU766352	SJEAD0C3
c 128	16.4	78.1	914	8	DR664497	DR664497 EST105461	201	15.8	75.2	532	2	BF615603	de83f06.x
c 129	16.4	78.1	936	9	CC694348	CC694348 OGV8Q70TH	202	15.8	75.2	533	6	CB090293	SP37C06.G
c 130	16.4	78.1	1178	8	DN738638	DN738638 CNB99-G08	203	15.8	75.2	537	5	BU777836	SJEDOE05
c 131	16.4	78.1	1215	8	DN731149	DN731149 CNB56-H08	204	15.8	75.2	542	1	AJ788525	AJ788525
c 132	16.4	78.1	1315	8	DN738639	DN738639 CNB99-G08	205	15.8	75.2	542	6	CB636013	OSUNEa01A
c 133	16.4	78.1	1346	8	DN731150	DN731150 CNB56-H08	206	15.8	75.2	552	6	CB091437	CB091437 he92d02.g
c 134	16.2	77.1	314	1	AJ762828	AJ762828 AJ762828	207	15.8	75.2	563	5	BU779037	SJESSEF12
c 135	16.2	77.1	388	2	BF442393	BF442393 259086 MA	208	15.8	75.2	573	1	AJ801332	AJ801332
c 136	16.2	77.1	422	5	BQ765998	BQ765998 EBR003_SQ	209	15.8	75.2	573	1	AJ804674	AJ804674
c 137	16.2	77.1	491	10	C2212608	C2212608 AIAA-aaF4	210	15.8	75.2	574	3	BM000491	103108851
c 138	16.2	77.1	498	3	BI722891	BI722891 1031059G0	211	15.8	75.2	574	6	CB089581	sp26a10.g
c 139	16.2	77.1	526	3	BI998617	BI998617 1031059G0	212	15.8	75.2	576	4	AY915222	Sch1st080
c 140	16.2	77.1	546	2	BB753714	BB753714 BB753714	213	15.8	75.2	576	7	CV741292	SJAL_032
c 141	16.2	77.1	584	3	BI845301	BI845301 f893C03.y	214	15.8	75.2	576	7	CV741365	SJAL_033-
c 142	16.2	77.1	606	1	AL819778	AL819778 AL819778	215	15.8	75.2	582	7	AT004936	AT004936
c 143	16.2	77.1	615	7	CO868082	CO868082 Mdfit3040	216	15.8	75.2	585	6	CB090890	CB090890
c 144	16.2	77.1	625	2	BE660316	BE660316 3-C6 Gmax	217	15.8	75.2	588	10	CM031571	CM031571 104_260.1
c 145	16.2	77.1	640	2	BN053250	BN053250 Salsamande	218	15.8	75.2	590	7	CK072089	CK072089 69780r81c
c 146	16.2	77.1	645	7	CO427308	CO427308 CJ427308	219	15.8	75.2	592	1	AJ804557	AJ804557
c 147	16.2	77.1	664	11	CR125904	CR125904 Forward_B	220	15.8	75.2	596	10	CM090262	CM090262 104_436.1
c 148	16.2	77.1	671	9	BZ658172	BZ658172 OGCESE2TM	221	15.8	75.2	597	6	CD056323	CD056323 H011C04S
c 149	16.2	77.1	736	9	BH965954	BH965954 odh6h02.	222	15.8	75.2	598	9	AZ868948	AZ868948
c 150	16.2	77.1	760	3	BJ783636	BJ783636 BJ783636	223	15.8	75.2	600	8	BN968235	ISLJ361.A
c 151	16.2	77.1	763	6	CF635926	CF635926 zmrw00.0	224	15.8	75.2	608	9	BH527432	BH527432 BOHLX15TR
c 152	16.2	77.1	768	6	CF635926	CF635926 zmrw00.0	225	15.8	75.2	609	1	AJ802548	AJ802548
c 153	16.2	77.1	772	9	BH457953	BH457953 BOGW699TR	226	15.8	75.2	614	8	DN971378	B11_ISUPS
c 154	16.2	77.1	774	3	BJ815391	BJ815391 BJ815391	227	15.8	75.2	615	9	BH983242	odf02b03.
c 155	16.2	77.1	800	8	DN762885	DN762885 EST002013	228	15.8	75.2	619	8	DN971431	DN971431 C04_ISUPM
c 156	16.2	77.1	805	10	CG044630	CG044630 PUILL88TD	229	15.8	75.2	620	3	BI727152	BI727152 1031090A0
c 157	16.2	77.1	822	10	CG159228	CG159228 PUFLW79TD	230	15.8	75.2	620	3	BJ608788	BJ608788
c 158	16.2	77.1	833	10	CZ194343	CZ194343 AIAA-aac5	231	15.8	75.2	624	7	CO381349	FRA0878.S
c 159	16.2	77.1	851	11	CNS06YEL	ALU20931 T7 end of	232	15.8	75.2	631	11	CR865369	CR865369 Sub scrof
c 160	16.2	77.1	854	9	BZ658160	BZ658160 OGCESE2TC	233	15.8	75.2	633	3	CF541553	AGM81.Ano
c 161	16.2	77.1	871	9	BZ978624	BZ978624 PUDGU24TD	234	15.8	75.2	635	3	BJ592061	BJ592061
c 162	16.2	77.1	903	9	CC137287	CC137287 NDL_81P21	235	15.8	75.2	641	6	CA781113	mp1384-7
c 163	16.2	77.1	931	10	CA298782	CA298782 GNM2-16P6	236	15.8	75.2	650	6	CD825134	BN25_059N
c 164	16.2	77.1	932	7	CR286267	CR286267 CR286267	237	15.8	75.2	653	7	CO450011	MZCCL1014
c 165	16.2	77.1	1135	10	AJ855761	AJ855761 Brasica	238	15.8	75.2	655	10	AG11843	Pan trogl
c 166	16.2	77.1	1205	10	AG046547	AG046547 Pan trogl	239	15.8	75.2	668	5	BQ466022	H01F17T
c 167	16.2	77.1	1273	10	CL648401	CL648401 CH213-175	240	15.8	75.2	669	10	CL188526	CL188526
c 168	16.2	77.1	1423	2	BF783329	BF783329 602109862	241	15.8	75.2	670	1	AU076263	AU076263



C 242	15.8	75.2	672	6	CD206751	CD206751 HSL 24 H0	C 315	15.4	73.3	504	3	BM000797	BM000797 1031091C0
243	15.8	75.2	674	10	CW503558	CW503558 OP Ba000	316	15.4	73.3	506	3	AA530518	AA530518 vj39e07.r
244	15.8	75.2	676	5	BQ412021	BQ412021 GA Ed005	317	15.4	73.3	509	3	BI531492	BI531492 102411480
245	15.8	75.2	676	8	CX264732	CX264732 FMB00-006	318	15.4	73.3	514	2	BI065893	BI065893 pgin.pko
246	15.8	75.2	692	10	AG283599	AG283599 Mus muscu	319	15.4	73.3	516	3	BJ931722	BJ931722 BJ931722
C 247	15.8	75.2	694	7	CO059404	CO059404 esc_k_bre	320	15.4	73.3	518	2	BF466475	BF466475 UI-N-CG0p
C 248	15.8	75.2	699	10	CL612292	CL612292 OR BBa000	321	15.4	73.3	523	8	DR787735	DR787735 ZM BFb000
C 249	15.8	75.2	705	2	BE881250	BE881250 601492331	322	15.4	73.3	523	9	BZ362681	BZ362681 id70b04.g
C 250	15.8	75.2	717	8	DN968710	DN968710 ISPL-P6-E	323	15.4	73.3	526	1	AI777737	AI777737 EST258616
C 251	15.8	75.2	728	1	AJ559772	AJ559772 AJ559772	324	15.4	73.3	526	2	BF113118	BF113118 EST440708
C 252	15.8	75.2	732	10	AG428169	AG428169 Mus muscu	325	15.4	73.3	528	2	BE460603	BE460603 EST412022
C 253	15.8	75.2	744	10	AG364365	AG364365 Mus muscu	326	15.4	73.3	530	9	BH784165	BH784165 fzm0013f0
C 254	15.8	75.2	749	3	BJ665990	BJ665990 BJ665990	327	15.4	73.3	538	5	BQ758603	BQ758603 EBma07_SQ
255	15.8	75.2	758	10	CW834479	CW834479 OP Ba009	328	15.4	73.3	541	1	AG390968	AG390968 AV390968
256	15.8	75.2	760	10	CW834025	CW834025 OP Ba009	329	15.4	73.3	541	1	AV390968	AV390968 AV390968
257	15.8	75.2	769	9	BH727541	BH727541 BOML07TR	330	15.4	73.3	542	5	BQ704584	BQ704584 Bn01_02b2
C 258	15.8	75.2	774	7	CO561026	CO561026 AGENCOURT	331	15.4	73.3	550	8	DN519314	DN519314 1260i36 M
C 259	15.8	75.2	775	6	CD827161	CD827161 BN25.0661	332	15.4	73.3	558	9	AQ138235	AQ138235 HS_3069_B
260	15.8	75.2	777	7	CO399792	CO399792 AGENCOURT	333	15.4	73.3	570	8	DN850828	DN850828 4146372 B
261	15.8	75.2	788	9	CC908104	CC908104 t040i15ba	334	15.4	73.3	573	5	EX263477	EX263477 BX263477
C 262	15.8	75.2	789	7	CK316592	CK316592 SB02019A2	335	15.4	73.3	573	8	DN927840	DN927840 4153137 B
C 263	15.8	75.2	802	6	CB651419	CB651419 OSJNEB16P	336	15.4	73.3	585	3	BI727283	BI727283 1031091C0
C 264	15.8	75.2	820	10	CZ694312	CZ694312 OC Ba000	337	15.4	73.3	588	3	BI721578	BI721578 1031056G0
C 265	15.8	75.2	821	8	DN872102	DN872102 nad17R02.	338	15.4	73.3	588	10	CG269249	CG269249 OGVC177TV
C 266	15.8	75.2	830	6	CB630702	CB630702 OSIIEB07M	339	15.4	73.3	592	3	BI998372	BI998372 1031056G0
C 267	15.8	75.2	833	10	CZ221869	CZ221869 A1AA-aad5	340	15.4	73.3	595	1	AI981642	AI981642 pat.pk006
C 268	15.8	75.2	834	6	CB631345	CB631345 OSIIEB08M	341	15.4	73.3	597	8	DN850842	DN850842 4146387 B
C 269	15.8	75.2	838	6	CD574176	CD574176 UCRPT01_0	342	15.4	73.3	597	9	CE196216	CE196216 tigr-g88-
C 270	15.8	75.2	840	10	CZ216422	CZ216422 A1AA-aac7	343	15.4	73.3	598	3	BJ794173	BJ794173 BH58156.5
271	15.8	75.2	841	7	CK596038	CK596038 AGENCOURT	344	15.4	73.3	600	3	BI629312	BI629312 RH58156.5
C 272	15.8	75.2	843	10	CW978426	CW978426 A1AA-aac3	345	15.4	73.3	606	1	AL799976	AL799976 AL799976
C 273	15.8	75.2	843	10	CL970277	CL970277 OIFCC041	346	15.4	73.3	609	3	BM413435	BM413435 EST587762
274	15.8	75.2	856	7	CV673632	CV673632 RET7SJ_20	347	15.4	73.3	610	5	BX258069	BX258069 BX258069
275	15.8	75.2	863	10	DU005089	DU005089 300669 To	348	15.4	73.3	611	6	CA202776	CA202776 SCSEFL104
C 276	15.8	75.2	866	8	CK189415	CK189415 75-E02278	349	15.4	73.3	613	1	AL849058	AL849058 AL849058
C 277	15.8	75.2	898	7	CV292554	CV292554 aof01-5m8	350	15.4	73.3	614	5	BUI31587	BUI31587 603003805
C 278	15.8	75.2	900	7	CLN158761	CLN158761 947573 MA	351	15.4	73.3	614	7	CN087165	CN087165 EST28BA28B
C 279	15.8	75.2	910	7	CV291176	CV291176 aof01-7m8	352	15.4	73.3	615	10	CL384099	CL384099 RPI44_32
280	15.8	75.2	931	7	CV290995	CV290995 aof01-16m	353	15.4	73.3	617	3	BI721577	BI721577 1031056G0
281	15.8	75.2	972	10	CL061435	CL061435 CH216-95M	354	15.4	73.3	617	9	AZ643157	AZ643157 1M0506F10
282	15.8	75.2	1020	10	CL063929	CL063929 CH216-101	355	15.4	73.3	621	9	BZ369010	BZ369010 C0C100.1.
283	15.8	75.2	1027	4	CNS0PQKK	CNS0PQKK Tetraodon	356	15.4	73.3	622	1	AL901127	AL901127 AL901127
C 284	15.8	75.2	1036	11	CNS03505	BQ062406 AGENCOURT	357	15.4	73.3	623	1	AL957502	AL957502 AL957502
C 285	15.8	75.2	1115	3	BQ062406	BQ062406 AGENCOURT	358	15.4	73.3	624	7	CN778522	CN778522 pma2c.pk0
286	15.8	75.2	1136	2	BG250783	BG250783 602363095	359	15.4	73.3	629	7	CO534271	CO534271 3530_1_22
287	15.8	75.2	1325	10	AJ860722	AJ860722 Braesica	360	15.4	73.3	634	6	CA223739	CA223739 SCJFFLiC0
C 288	15.8	75.2	2404	4	AK088187	AK088187 Mus muscu	361	15.4	73.3	636	5	BX263478	BX263478 AL866113
C 289	15.8	75.2	4524	4	AK048959	AK048959 Mus muscu	362	15.4	73.3	640	1	AL866113	AL866113 AL866113
C 290	15.4	73.3	214	1	AL587995	AL587995 AL587995	363	15.4	73.3	642	8	CX879273	CX879273 JGI CAAL1
C 291	15.4	73.3	215	9	AZ925170	AZ925170 4910.ez32	364	15.4	73.3	642	8	CX879273	CX879273 JGI CAAL1
292	15.4	73.3	221	6	CA289727	CA289727 SCAGFL800	365	15.4	73.3	645	3	BI724090	BI724090 1031069A1
293	15.4	73.3	259	8	DR109369	DR109369 81847_127	366	15.4	73.3	645	5	BX271212	BX271212 BX271212
C 295	15.4	73.3	321	3	BM409836	BM409836 EST584163	367	15.4	73.3	648	1	AL957501	AL957501 AL957501
C 296	15.4	73.3	383	8	DN522062	DN522062 1265012 M	368	15.4	73.3	654	3	BJ767778	BJ767778 BJ767778
C 297	15.4	73.3	385	9	AQ138332	AQ138332 HS_3078_A	369	15.4	73.3	655	3	BG854747	BG854747 1024040G0
298	15.4	73.3	387	9	AZ812429	AZ812429 2M0079A08	370	15.4	73.3	656	6	CF177593	CF177593 806084 MA
299	15.4	73.3	402	3	BM535415	BM535415 EST588437	371	15.4	73.3	656	5	BUI47977	BUI47977 603842460
C 300	15.4	73.3	412	8	H71252	H71252 Ye12h12.81	372	15.4	73.3	657	6	BU479777	BU479777 603842460
301	15.4	73.3	427	5	BX258070	BX258070 BX258070	373	15.4	73.3	661	1	AL887893	AL887893 AL887893
302	15.4	73.3	435	2	BF073865	BF073865 220905 MA	374	15.4	73.3	662	2	BG854406	BG854406 1024040G0
303	15.4	73.3	441	2	BF549653	BF549653 UT-R-C2-n	375	15.4	73.3	664	6	CA223649	CA223649 SCJFFLiC0
304	15.4	73.3	458	2	BE924280	BE924280 EST428049	376	15.4	73.3	666	1	AL631211	AL631211 AL631211
305	15.4	73.3	459	2	BF112873	BF112873 EST40463	377	15.4	73.3	667	5	BU251084	BU251084 603402386
306	15.4	73.3	460	5	BQ908062	BQ908062 Q006F10_0	378	15.4	73.3	668	6	CF178011	CF178011 807040 MA
307	15.4	73.3	465	3	BI531493	BI531493 102411480	379	15.4	73.3	669	2	BG854406	BG854406 1024040G0
308	15.4	73.3	478	7	CV039783	CV039783 4137196 B	380	15.4	73.3	671	2	BG854745	BG854745 1024040G0
C 309	15.4	73.3	481	1	AA858110	AA858110 of65902.B	381	15.4	73.3	673	2	BG851880	BG851880 1024032F0
310	15.4	73.3	482	5	BU989965	BU989965 HP23H01r	382	15.4	73.3	675	8	CX803872	CX803872 JGI CAAL1
C 311	15.4	73.3	488	3	BP048815	BP048815 BP048815	383	15.4	73.3	676	6	CF701393	CF701393 CAAC522TR
C 312	15.4	73.3	490	9	AZ356596	AZ356596 LM0097D16	384	15.4	73.3	676	8	DN239008	DN239008 MUC4LH101
313	15.4	73.3	495	6	CD737743	CD737743 4023185 1	385	15.4	73.3	680	8	CX421706	CX421706 JGI XZG15
C 314	15.4	73.3	500	2	BE129450	BE129450 894023C08	386	15.4	73.3	681	7	CO144403	CO144403 EST839074
							387	15.4	73.3	682	6	CA381176	CA381176 660639 NC

C 388	388	15.4	73.3	684	7	CK269490	EST715568	CK269490	EST715568	461	15.4	73.3	870	5	BU216410	603106514
C 389	389	15.4	73.3	686	1	AL125632	gd94g04.x	AL125632	gd94g04.x	462	15.4	73.3	877	5	BX732868	BX732868
C 390	390	15.4	73.3	686	3	BU791267	BU791267	BU791267	BU791267	C 463	15.4	73.3	877	10	CG326332	CG326332
C 391	391	15.4	73.3	686	7	CN544485	UI-R-EP0-	CN544485	UI-R-EP0-	C 464	15.4	73.3	881	10	CG313484	CG313484
C 392	392	15.4	73.3	688	6	CA077499	SCQSA103	CA077499	SCQSA103	465	15.4	73.3	884	10	CG313470	CG313470
C 393	393	15.4	73.3	688	6	CF702472	SCAAQ3TR	CF702472	SCAAQ3TR	466	15.4	73.3	884	10	CG313470	CG313470
C 394	394	15.4	73.3	688	7	CK274099	EST720177	CK274099	EST720177	467	15.4	73.3	887	8	DR882761	DR882761
C 395	395	15.4	73.3	688	7	CK274099	EST720177	CK274099	EST720177	468	15.4	73.3	887	8	DR882761	DR882761
C 396	396	15.4	73.3	690	8	DN238613	MUC4LH100	DN238613	MUC4LH100	468	15.4	73.3	904	9	CC375164	CC375164
C 397	397	15.4	73.3	692	7	CR586075	CR586075	CR586075	CR586075	469	15.4	73.3	915	5	BU354609	BU354609
C 398	398	15.4	73.3	706	7	CV053960	BNEL105B3	CV053960	BNEL105B3	470	15.4	73.3	928	7	CK274098	CK274098
C 399	399	15.4	73.3	711	10	CG192779	PUIAK15TB	CG192779	PUIAK15TB	C 471	15.4	73.3	934	10	CG289934	CG289934
C 400	400	15.4	73.3	714	2	BG857062	1024049F1	BG857062	1024049F1	C 472	15.4	73.3	944	8	DN568131	DN568131
C 401	401	15.4	73.3	718	2	BG851881	BG851881	BG851881	BG851881	C 473	15.4	73.3	961	9	CC375160	CC375160
C 402	402	15.4	73.3	720	7	CR586387	CR586387	CR586387	CR586387	C 474	15.4	73.3	998	5	BU321375	BU321375
C 403	403	15.4	73.3	725	3	BU784634	BU784634	BU784634	BU784634	475	15.4	73.3	1027	5	BU412469	BU412469
C 404	404	15.4	73.3	726	6	CF251131	esa021.c0	CF251131	esa021.c0	C 476	15.4	73.3	1139	2	BG426907	BG426907
C 405	405	15.4	73.3	727	2	BG594763	EST493441	BG594763	EST493441	477	15.4	73.3	1164	3	BQ278079	BQ278079
C 406	406	15.4	73.3	729	10	BK9803057	Reverse	BK9803057	Reverse	C 478	15.4	73.3	1172	11	CNS06TLI	AL414700 T3 end of
C 407	407	15.4	73.3	733	3	BM406722	EST581049	BM406722	EST581049	C 479	15.4	73.3	1244	8	DN689564	DN689564
C 408	408	15.4	73.3	742	5	BU318263	BU318263	BU318263	BU318263	C 480	15.4	73.3	1262	2	BG173641	BG173641
C 409	409	15.4	73.3	742	8	CK436141	JGI_XZ658	CK436141	JGI_XZ658	C 481	15.4	73.3	1277	8	DN698722	DN698722
C 410	410	15.4	73.3	744	9	DR516152	WS02742.C	DR516152	WS02742.C	C 482	15.4	73.3	1382	8	DN692652	DN692652
C 411	411	15.4	73.3	744	10	AG574081	Mus muscu	AG574081	Mus muscu	C 483	15.4	73.3	1586	10	AG072435	AG072435
C 412	412	15.4	73.3	749	5	BU386329	603581884	BU386329	603581884	484	15.2	72.4	68	10	CW478683	CW478683
C 413	413	15.4	73.3	749	10	AG546169	Mus muscu	AG546169	Mus muscu	485	15.2	72.4	104	5	BU123463	BU123463
C 414	414	15.4	73.3	749	10	CE301888	t3gr-g98-	CE301888	t3gr-g98-	486	15.2	72.4	115	5	BU134976	BU134976
C 415	415	15.4	73.3	750	5	BX271213	BX271213	BX271213	BX271213	487	15.2	72.4	148	2	BS587642	BS587642
C 416	416	15.4	73.3	753	1	AL969151	AL969151	AL969151	AL969151	C 488	15.2	72.4	153	6	CD941677	CD941677
C 417	417	15.4	73.3	755	8	CK478886	CK478886	CK478886	CK478886	489	15.2	72.4	154	2	B1125879	B1125879
C 418	418	15.4	73.3	760	3	BI928272	EST548161	BI928272	EST548161	490	15.2	72.4	177	9	CC030911	CC030911
C 419	419	15.4	73.3	766	11	CR215355	Reverse	CR215355	Reverse	C 491	15.2	72.4	190	3	BM293205	BM293205
C 420	420	15.4	73.3	772	6	CF709896	CCACA61TR	CF709896	CCACA61TR	C 492	15.2	72.4	193	1	AV775226	AV775226
C 421	421	15.4	73.3	774	5	BU327691	BU327691	BU327691	BU327691	493	15.2	72.4	204	9	CC374310	CC374310
C 422	422	15.4	73.3	775	9	CG609007	QGUH211TH	CG609007	QGUH211TH	494	15.2	72.4	206	5	B0889913	B0889913
C 423	423	15.4	73.3	776	11	CR097557	Forward	CR097557	Forward	C 495	15.2	72.4	208	4	AK180659	AK180659
C 424	424	15.4	73.3	778	5	BU331201	603869353	BU331201	603869353	C 496	15.2	72.4	211	10	CG644584	CG644584
C 425	425	15.4	73.3	778	7	CN229504	RJB072C11	CN229504	RJB072C11	C 497	15.2	72.4	212	2	BG739527	BG739527
C 426	426	15.4	73.3	780	7	CO425720	UI-M-H00-	CO425720	UI-M-H00-	498	15.2	72.4	220	3	BM766157	BM766157
C 427	427	15.4	73.3	780	10	CG439033	CG439033	CG439033	CG439033	499	15.2	72.4	225	1	AV017001	AV017001
C 428	428	15.4	73.3	787	8	CK318557	JGI_XZT71	CK318557	JGI_XZT71	C 500	15.2	72.4	236	1	AT003944	AT003944
C 429	429	15.4	73.3	791	9	CG712046	QUGH60TH	CG712046	QUGH60TH							
C 430	430	15.4	73.3	792	8	CK885128	CK885128	CK885128	CK885128							
C 431	431	15.4	73.3	795	5	BU355480	603474296	BU355480	603474296							
C 432	432	15.4	73.3	796	7	CO522916	3530.1.15	CO522916	3530.1.15							
C 433	433	15.4	73.3	797	8	CK326550	JGI_XZT15	CK326550	JGI_XZT15							
C 434	434	15.4	73.3	800	2	BG366284	HVSMEI000	BG366284	HVSMEI000							
C 435	435	15.4	73.3	801	8	CK338189	JGI_XZT60	CK338189	JGI_XZT60							
C 436	436	15.4	73.3	804	9	B2529076	OGAGY07TC	B2529076	OGAGY07TC							
C 437	437	15.4	73.3	805	8	CK497067	JGI_XZ643	CK497067	JGI_XZ643							
C 438	438	15.4	73.3	805	9	AZ190120	SP_T016_A	AZ190120	SP_T016_A							
C 439	439	15.4	73.3	807	5	BU256791	603415392	BU256791	603415392							
C 440	440	15.4	73.3	811	7	CO522917	3530.1.15	CO522917	3530.1.15							
C 441	441	15.4	73.3	811	8	CK955939	JGI_CAA08	CK955939	JGI_CAA08							
C 442	442	15.4	73.3	812	5	BU486693	604127510	BU486693	604127510							
C 443	443	15.4	73.3	812	5	EX075569	EX075569	EX075569	EX075569							
C 444	444	15.4	73.3	813	7	CK269491	EST715569	CK269491	EST715569							
C 445	445	15.4	73.3	815	10	CG257963	CG257963	CG257963	CG257963							
C 446	446	15.4	73.3	815	8	CK912834	JGI_CAA03	CK912834	JGI_CAA03							
C 447	447	15.4	73.3	816	9	CG642674	QUGFQ95TH	CG642674	QUGFQ95TH							
C 448	448	15.4	73.3	822	8	CK956044	JGI_CAA08	CK956044	JGI_CAA08							
C 449	449	15.4	73.3	825	8	CK912432	JGI_CAA03	CK912432	JGI_CAA03							
C 450	450	15.4	73.3	829	5	BU336072	603871120	BU336072	603871120							
C 451	451	15.4	73.3	831	2	BG416954	HVSMEK001	BG416954	HVSMEK001							
C 452	452	15.4	73.3	831	6	CF714210	CCADP34TR	CF714210	CCADP34TR							
C 453	453	15.4	73.3	831	6	CK876911	JGI_CAA01	CK876911	JGI_CAA01							
C 454	454	15.4	73.3	834	7	CO922668	AGENCOURT	CO922668	AGENCOURT							
C 455	455	15.4	73.3	840	8	DR782114	BAAC-PNP1	DR782114	BAAC-PNP1							
C 456	456	15.4	73.3	840	9	CC350754	OGRRB38TV	CC350754	OGRRB38TV							
C 457	457	15.4	73.3	841	8	CK387887	JGI_XZT21	CK387887	JGI_XZT21							
C 458	458	15.4	73.3	847	5	BU105425	603005591	BU105425	603005591							
C 459	459	15.4	73.3	847	8	CK402009	JGI_XZT49	CK402009	JGI_XZT49							
C 460	460	15.4	73.3	858	7	CR588406	CR588406	CR588406	CR588406							

## ALIGNMENTS

## RESULT 1

BQ762109

LOCUS

DEFINITION

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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 72.568 Seconds  
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514.397 Million cell updates/sec

Title: US-10-805-973-3

Perfect score: 21

Sequence: 1 cgtgctgctatgatccgaac 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

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4	17.4	82.9	208	3	US-10-258-842-9
5	17.4	82.9	208	3	US-10-258-842-11
6	17.4	82.9	528	3	US-10-258-842-16
7	17.4	82.9	1095	3	US-10-258-842-1
8	17.4	82.9	1985	3	US-10-258-842-20
9	17.4	82.9	1986	3	US-10-258-842-14
10	17.4	82.9	1986	3	US-10-258-842-18
11	17.4	82.9	1986	3	US-10-258-842-24
12	17.4	82.9	2279	3	US-10-258-842-4
13	17.4	82.9	2301	3	US-10-258-842-2
14	16.4	78.1	35337	3	US-09-949-016-17249
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17	15.8	75.2	507	3	US-09-105-567A-5
18	15.8	75.2	507	3	US-09-511-720-5
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20	15.8	75.2	601	3	US-09-949-016-90110
21	15.8	75.2	1005	3	US-09-248-796A-3142
22	15.8	75.2	1242	3	US-09-603-208A-173
23	15.8	75.2	52457	3	US-09-949-016-12418
24	15.8	75.2	105413	3	US-10-427-923-3

c 98	14.4	68.6	1059	3	US-09-252-991A-2370	Sequence 2370, Ap	171	14.2	67.6	1228	3	US-09-557-034-16	Sequence 16, Appl
c 99	14.4	68.6	1107	3	US-09-252-991A-2547	Sequence 2547, Ap	c 172	14.2	67.6	1245	3	US-09-318-443-1	Sequence 1, Appl
c 100	14.4	68.6	1143	3	US-09-543-681A-1740	Sequence 1740, Ap	c 173	14.2	67.6	1250	3	US-09-774-528-380	Sequence 380, App
c 101	14.4	68.6	1343	3	US-09-618-259-72	Sequence 72, Appl	c 174	14.2	67.6	1250	3	US-10-988-988-380	Sequence 380, App
c 102	14.4	68.6	1369	3	US-09-618-259-6	Sequence 6, Appl	c 175	14.2	67.6	1266	3	US-09-065-474-141	Sequence 141, App
c 103	14.4	68.6	1369	3	US-07-737-851-1	Sequence 1, Appl	c 176	14.2	67.6	1266	3	US-09-065-474-141	Sequence 141, App
c 104	14.4	68.6	1369	3	US-07-737-851-2	Sequence 2, Appl	c 177	14.2	67.6	1266	3	US-09-557-034-141	Sequence 141, App
c 105	14.4	68.6	1369	3	US-07-737-851-3	Sequence 3, Appl	c 178	14.2	67.6	1266	3	US-09-557-034-141	Sequence 141, App
c 106	14.4	68.6	1369	3	US-07-894-062-1	Sequence 1, Appl	c 179	14.2	67.6	1388	3	US-09-504-358-49	Sequence 49, Appl
c 107	14.4	68.6	1369	3	US-07-894-062-2	Sequence 2, Appl	c 180	14.2	67.6	1388	3	US-09-504-358-49	Sequence 49, Appl
c 108	14.4	68.6	1369	3	US-07-894-062-3	Sequence 3, Appl	c 181	14.2	67.6	1388	3	US-10-230-562-49	Sequence 49, Appl
c 109	14.4	68.6	1369	3	US-09-096-562-1	Sequence 1, Appl	c 182	14.2	67.6	1391	3	US-09-724-864-19	Sequence 19, Appl
c 110	14.4	68.6	1369	3	US-09-096-562-2	Sequence 2, Appl	c 183	14.2	67.6	1391	3	US-09-724-864-19	Sequence 19, Appl
c 111	14.4	68.6	1369	3	US-09-096-562-3	Sequence 3, Appl	c 184	14.2	67.6	1450	3	US-09-339-159B-33	Sequence 33, Appl
c 112	14.4	68.6	3035	2	US-08-728-723-2	Sequence 2, Appl	c 185	14.2	67.6	1450	3	US-09-726-774-8	Sequence 8, Appl
c 113	14.4	68.6	50530	3	US-09-949-016-12163	Sequence 12163, A	c 186	14.2	67.6	1477	3	US-09-606-401B-1	Sequence 1, Appl
c 114	14.4	68.6	50536	3	US-09-949-016-17526	Sequence 17526, A	c 187	14.2	67.6	1508	3	US-09-138-955A-14	Sequence 14, Appl
c 115	14.4	68.6	116592	3	US-09-818-512-3	Sequence 3, Appl	c 188	14.2	67.6	1508	3	US-09-694-531-14	Sequence 14, Appl
c 116	14.4	68.6	116592	3	US-10-354-065-3	Sequence 3, Appl	c 189	14.2	67.6	1508	3	US-09-339-159B-34	Sequence 34, Appl
c 117	14.4	68.6	117807	3	US-09-949-016-15525	Sequence 15525, A	c 190	14.2	67.6	1512	3	US-10-072-152-14	Sequence 14, Appl
c 118	14.4	68.6	118999	3	US-09-791-105B-32	Sequence 32, Appl	c 191	14.2	67.6	1515	3	US-08-995-960-2	Sequence 2, Appl
c 119	14.4	68.6	124264	3	US-09-949-016-16396	Sequence 16396, A	c 192	14.2	67.6	1522	3	US-09-726-774-9	Sequence 9, Appl
c 120	14.4	68.6	135687	3	US-09-949-002-805	Sequence 805, App	c 193	14.2	67.6	1549	3	US-09-548-606-1	Sequence 1, Appl
c 121	14.4	68.6	145241	3	US-09-949-016-17394	Sequence 17394, A	c 194	14.2	67.6	1939	3	US-09-905-999-36	Sequence 36, App
c 122	14.4	68.6	145241	3	US-09-949-016-17395	Sequence 17395, A	c 195	14.2	67.6	2380	3	US-09-799-451-566	Sequence 566, App
c 123	14.4	68.6	187595	3	US-09-949-016-15546	Sequence 15546, A	c 196	14.2	67.6	2728	3	US-09-964-992A-4	Sequence 4, Appl
c 124	14.2	67.6	25	3	US-09-396-196G-122165	Sequence 122165, A	c 197	14.2	67.6	2772	3	US-09-180-570A-22	Sequence 22, Appl
c 125	14.2	67.6	92	3	US-09-565-241-15	Sequence 15, Appl	c 198	14.2	67.6	3108	3	US-09-614-221A-210	Sequence 210, App
c 126	14.2	67.6	92	3	US-09-565-241-16	Sequence 16, Appl	c 199	14.2	67.6	3177	3	US-09-949-016-5629	Sequence 5629, Ap
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c 128	14.2	67.6	92	3	US-09-565-241-18	Sequence 18, Appl	c 201	14.2	67.6	3260	3	US-09-949-016-2456	Sequence 2456, Ap
c 129	14.2	67.6	386	2	US-08-244-269-29	Sequence 29, Appl	c 202	14.2	67.6	3285	3	US-09-712-363-143	Sequence 143, App
c 130	14.2	67.6	386	2	US-08-244-269-30	Sequence 30, Appl	c 203	14.2	67.6	5235	2	US-09-949-016-320	Sequence 320, App
c 131	14.2	67.6	386	2	US-08-244-269-48	Sequence 48, Appl	c 204	14.2	67.6	5235	2	US-09-031-485-35	Sequence 35, Appl
c 132	14.2	67.6	426	2	US-08-470-179-193	Sequence 193, App	c 205	14.2	67.6	5235	2	US-09-031-485-36	Sequence 36, Appl
c 133	14.2	67.6	511	3	US-08-854-133-360	Sequence 360, App	c 206	14.2	67.6	5235	2	US-08-847-429A-36	Sequence 36, Appl
c 134	14.2	67.6	554	3	US-08-995-960-3	Sequence 3, Appl	c 207	14.2	67.6	5235	3	US-09-065-474-35	Sequence 35, Appl
c 135	14.2	67.6	555	3	US-09-489-039A-4320	Sequence 4320, Ap	c 208	14.2	67.6	5235	3	US-09-065-474-36	Sequence 36, Appl
c 136	14.2	67.6	558	3	US-08-995-960-4	Sequence 4, Appl	c 209	14.2	67.6	5235	3	US-09-557-034-35	Sequence 35, Appl
c 137	14.2	67.6	572	3	US-08-995-960-7	Sequence 7, Appl	c 210	14.2	67.6	5235	3	US-09-557-034-36	Sequence 36, Appl
c 138	14.2	67.6	573	3	US-08-995-960-13	Sequence 13, Appl	c 211	14.2	67.6	5333	2	US-09-949-016-957	Sequence 957, App
c 139	14.2	67.6	591	3	US-09-854-133-315	Sequence 315, App	c 212	14.2	67.6	5503	2	US-09-031-485-32	Sequence 32, Appl
c 140	14.2	67.6	601	3	US-09-949-016-70809	Sequence 70809, A	c 213	14.2	67.6	5503	2	US-09-031-485-34	Sequence 34, Appl
c 141	14.2	67.6	601	3	US-09-949-016-103188	Sequence 103188, A	c 214	14.2	67.6	5503	2	US-08-847-429A-32	Sequence 32, Appl
c 142	14.2	67.6	601	3	US-09-949-016-175827	Sequence 175827, A	c 215	14.2	67.6	5503	2	US-08-847-429A-34	Sequence 34, Appl
c 143	14.2	67.6	601	3	US-09-949-016-175828	Sequence 175828, A	c 216	14.2	67.6	5503	3	US-09-065-474-32	Sequence 32, Appl
c 144	14.2	67.6	601	3	US-09-949-016-181024	Sequence 181024, A	c 217	14.2	67.6	5503	3	US-09-065-474-34	Sequence 34, Appl
c 145	14.2	67.6	601	3	US-09-949-016-181025	Sequence 181025, A	c 218	14.2	67.6	5503	3	US-09-557-034-32	Sequence 32, Appl
c 146	14.2	67.6	601	3	US-09-949-016-181026	Sequence 181026, A	c 219	14.2	67.6	5503	3	US-09-557-034-34	Sequence 34, Appl
c 147	14.2	67.6	786	3	US-09-134-000C-1561	Sequence 1561, Ap	c 220	14.2	67.6	6504	3	US-09-487-558B-55	Sequence 55, Appl
c 148	14.2	67.6	821	3	US-08-990-823-62	Sequence 62, Appl	c 221	14.2	67.6	10095	3	US-08-822-586-45	Sequence 45, Appl
c 149	14.2	67.6	821	3	US-09-477-135A-62	Sequence 62, Appl	c 222	14.2	67.6	13361	3	US-09-949-016-12478	Sequence 12478, A
c 150	14.2	67.6	828	3	US-09-489-039A-4618	Sequence 4618, Ap	c 223	14.2	67.6	13785	3	US-09-949-016-15631	Sequence 15631, A
c 151	14.2	67.6	1111	3	US-09-774-528-387	Sequence 387, App	c 224	14.2	67.6	19454	3	US-09-949-016-13532	Sequence 13532, A
c 152	14.2	67.6	1111	3	US-10-120-988-387	Sequence 387, App	c 225	14.2	67.6	21438	3	US-09-949-016-14198	Sequence 14198, A
c 153	14.2	67.6	1190	3	US-09-774-528-379	Sequence 379, App	c 226	14.2	67.6	259615	3	US-09-949-016-14590	Sequence 14590, A
c 154	14.2	67.6	1212	3	US-10-120-988-379	Sequence 379, App	c 227	14.2	67.6	37155	3	US-09-949-016-16945	Sequence 16945, A
c 155	14.2	67.6	1227	3	US-09-134-000C-1099	Sequence 1099, Ap	c 228	14.2	67.6	60417	3	US-09-949-016-13312	Sequence 13312, A
c 156	14.2	67.6	1227	3	US-09-031-485-17	Sequence 17, Appl	c 229	14.2	67.6	62776	3	US-09-949-016-17576	Sequence 17576, A
c 157	14.2	67.6	1227	3	US-09-031-485-18	Sequence 18, Appl	c 230	14.2	67.6	88245	3	US-09-949-016-13835	Sequence 13835, A
c 158	14.2	67.6	1227	3	US-08-847-429A-17	Sequence 17, Appl	c 231	14.2	67.6	94748	3	US-09-949-016-12648	Sequence 12648, A
c 159	14.2	67.6	1227	3	US-08-847-429A-18	Sequence 18, Appl	c 232	14.2	67.6	94758	3	US-09-949-016-16741	Sequence 16741, A
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c 161	14.2	67.6	1227	3	US-09-065-474-18	Sequence 18, Appl	c 234	14.2	67.6	118143	3	US-09-949-016-17196	Sequence 17196, A
c 162	14.2	67.6	1227	3	US-09-557-034-17	Sequence 17, Appl	c 235	14.2	67.6	260286	3	US-09-949-016-17037	Sequence 17037, A
c 163	14.2	67.6	1227	3	US-09-557-034-18	Sequence 18, Appl	c 236	14.2	67.6	260293	3	US-09-949-016-12106	Sequence 12106, A
c 164	14.2	67.6	1228	2	US-09-031-485-14	Sequence 14, Appl	c 237	14.2	67.6	285986	3	US-09-949-016-12287	Sequence 12287, A
c 165	14.2	67.6	1228	2	US-09-031-485-15	Sequence 15, Appl	c 238	14.2	67.6	331814	3	US-09-949-016-12008	Sequence 12008, A
c 166	14.2	67.6	1228	2	US-08-847-429A-14	Sequence 14, Appl	c 239	14.2	67.6	331814	3	US-09-949-016-17056	Sequence 17056, A
c 167	14.2	67.6	1228	2	US-08-847-429A-16	Sequence 16, Appl	c 240	14.2	67.6	373182	3	US-09-949-016-17371	Sequence 17371, A
c 168	14.2	67.6	1228	3	US-09-065-474-14	Sequence 14, Appl	c 241	14.2	67.6	373182	3	US-09-949-016-12062	Sequence 12062, A
c 169	14.2	67.6	1228	3	US-09-065-474-16	Sequence 16, Appl	c 242	14.2	67.6	451924	3	US-09-949-016-12896	Sequence 12896, A
c 170	14.2	67.6	1228	3	US-09-557-034-14	Sequence 14, Appl	c 243	14.2	67.6	451925	3	US-09-949-016-17305	Sequence 17305, A

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## ALIGNMENTS

## RESULT 1

US-10-258-842-10  
; Sequence 10, Application US/10258842  
; Patent No. 6943280

; GENERAL INFORMATION:  
; APPLICANT: Board of Supervisors of Louisiana State University and Agricultural and  
; APPLICANT: Mechanical College  
; APPLICANT: Croughan, Timothy  
; TITLE OF INVENTION: RESISTANCE TO ACETOHYDROXYACID SYNTHASE-INHIBITING HERBICIDES  
; FILE REFERENCE: 98A9.2-PCT Croughan  
; CURRENT APPLICATION NUMBER: US/10/258,842  
; CURRENT FILING DATE: 2002-10-28  
; PRIOR APPLICATION NUMBER: US 60/203,434  
; PRIOR FILING DATE: 2000-05-10  
; NUMBER OF SEQ ID NOS: 25  
; SOFTWARE: PatentIn version 3.0; and WordPerfect version 8

SEQ ID NO 10  
LENGTH: 182  
TYPE: DNA

ORGANISM: Oryza sativa

FEATURE:

NAME/KEY: misc feature

OTHER INFORMATION: Partial AHAS sequence, line PWC23

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Best Local Similarity 94.7%; Pred. No. 18;

Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Title: US-10-805-973-3

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Minimum DB seq length: 0

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Maximum Match 100%

Listing first 500 summaries

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#### SUMMARIES

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c 103	15.2	72.4	339	7	US-10-767-701-16773	Sequence 16773, A	176	15.2	72.4	2931	8	US-10-425-115-83343	Sequence 83343, A
c 104	15.2	72.4	356	8	US-10-425-115-32300	Sequence 32300, A	c 177	15.2	72.4	3411	7	US-10-437-963-80405	Sequence 80405, A
105	15.2	72.4	396	8	US-10-425-115-17883	Sequence 17883, A	178	15.2	72.4	3809	7	US-10-425-114-31328	Sequence 31328, A
106	15.2	72.4	450	3	US-09-918-995-28514	Sequence 28514, A	179	15.2	72.4	3836	8	US-10-425-115-33814	Sequence 33814, A
107	15.2	72.4	469	3	US-09-854-432A-14	Sequence 14, Appl	c 180	15.2	72.4	3972	7	US-10-437-963-1932	Sequence 1932, Ap
108	15.2	72.4	469	9	US-10-287-436A-332	Sequence 332, App	181	15.2	72.4	4017	9	US-10-450-763-15777	Sequence 15777, A
109	15.2	72.4	469	9	US-10-287-436A-1416	Sequence 1416, Ap	182	15.2	72.4	4017	9	US-10-450-763-30299	Sequence 30299, A
110	15.2	72.4	471	7	US-10-437-963-11772	Sequence 11772, A	c 183	15.2	72.4	4580	10	US-11-097-143-10837	Sequence 10837, A
111	15.2	72.4	479	4	US-09-925-065A-741787	Sequence 741787, A	184	15.2	72.4	4952	10	US-11-097-143-25114	Sequence 25114, A
112	15.2	72.4	489	5	US-10-027-632-45700	Sequence 45700, A	185	15.2	72.4	5022	10	US-11-097-143-11104	Sequence 11104, A
113	15.2	72.4	489	5	US-10-027-632-80601	Sequence 80601, A	186	15.2	72.4	5425	7	US-10-437-963-79004	Sequence 79004, A
114	15.2	72.4	489	5	US-10-027-632-315173	Sequence 315173, A	187	15.2	72.4	5700	8	US-10-857-625-33	Sequence 33, Appl
115	15.2	72.4	489	6	US-10-027-632-45700	Sequence 45700, A	c 188	15.2	72.4	5808	7	US-10-437-963-80868	Sequence 80868, A
116	15.2	72.4	489	6	US-10-027-632-80601	Sequence 80601, A	189	15.2	72.4	6063	7	US-10-437-963-79070	Sequence 79070, A
117	15.2	72.4	489	6	US-10-027-632-315173	Sequence 315173, A	190	15.2	72.4	6336	3	US-09-964-824A-114	Sequence 114, App
c 118	15.2	72.4	556	4	US-09-925-065A-418659	Sequence 418659, A	191	15.2	72.4	6336	3	US-09-880-107-1537	Sequence 1537, Ap
119	15.2	72.4	575	5	US-10-027-632-245874	Sequence 245874, A	192	15.2	72.4	6336	9	US-10-843-641A-5417	Sequence 5417, Ap
120	15.2	72.4	575	5	US-10-027-632-245875	Sequence 245875, A	193	15.2	72.4	6336	9	US-08-781-986A-51	Sequence 51, Appl
121	15.2	72.4	575	5	US-10-027-632-245876	Sequence 245876, A	194	15.2	72.4	6730	7	US-10-329-624-51	Sequence 51, Appl
122	15.2	72.4	575	6	US-10-027-632-245876	Sequence 245876, A	195	15.2	72.4	7174	2	US-08-961-527-189	Sequence 189, App
123	15.2	72.4	575	6	US-10-027-632-245876	Sequence 245876, A	196	15.2	72.4	7174	2	US-10-158-844-189	Sequence 189, App
124	15.2	72.4	575	6	US-10-027-632-245876	Sequence 245876, A	197	15.2	72.4	9443	8	US-10-723-860-94	Sequence 94, Appl
125	15.2	72.4	595	4	US-09-925-065A-55411	Sequence 55411, A	c 198	15.2	72.4	9495	8	US-10-723-860-4851	Sequence 4851, Ap
126	15.2	72.4	595	4	US-09-925-065A-55412	Sequence 55412, A	199	15.2	72.4	10614	9	US-10-893-671-58	Sequence 58, Appl
c 127	15.2	72.4	596	4	US-09-925-065A-31215	Sequence 31215, A	c 200	15.2	72.4	17200	3	US-09-764-877-3390	Sequence 3390, Ap
c 128	15.2	72.4	598	4	US-09-925-065A-426540	Sequence 426540, A	c 201	15.2	72.4	17200	6	US-10-242-515-3390	Sequence 3390, Ap
c 129	15.2	72.4	600	9	US-09-925-065A-749962	Sequence 749962, A	c 202	15.2	72.4	20575	8	US-10-278-698-277	Sequence 277, App
c 130	15.2	72.4	600	9	US-10-972-079-600	Sequence 600, App	c 203	15.2	72.4	20575	8	US-10-278-698-791	Sequence 791, App
c 131	15.2	72.4	604	4	US-09-925-065A-43700	Sequence 43700, A	c 204	15.2	72.4	20846	8	US-10-723-860-4627	Sequence 4627, Ap
c 132	15.2	72.4	604	4	US-09-925-065A-418346	Sequence 418346, A	c 205	15.2	72.4	20881	8	US-10-723-860-24	Sequence 24, Appl
c 133	15.2	72.4	605	4	US-09-925-065A-418347	Sequence 418347, A	c 206	15.2	72.4	21166	7	US-10-367-094-198	Sequence 198, App
c 134	15.2	72.4	605	4	US-09-925-065A-418348	Sequence 418348, A	c 207	15.2	72.4	22804	3	US-09-997-722-268	Sequence 268, App
c 135	15.2	72.4	605	4	US-09-925-065A-418349	Sequence 418349, A	c 208	15.2	72.4	33963	6	US-10-252-798-617	Sequence 617, App
c 136	15.2	72.4	617	9	US-10-621-911A-1	Sequence 1, Appli	c 209	15.2	72.4	33963	5	US-10-087-192-1129	Sequence 1129, Ap
c 137	15.2	72.4	617	9	US-10-646-390A-1	Sequence 1, Appli	c 210	15.2	72.4	57561	5	US-10-737-082-105	Sequence 105, App
c 138	15.2	72.4	634	5	US-10-027-632-199868	Sequence 199868, A	c 211	15.2	72.4	61635	9	US-10-737-082-118	Sequence 118, App
c 139	15.2	72.4	634	6	US-10-027-632-199868	Sequence 199868, A	c 212	15.2	72.4	61635	9	US-10-765-790-105	Sequence 105, App
c 140	15.2	72.4	634	6	US-10-027-632-199868	Sequence 199868, A	c 213	15.2	72.4	61635	9	US-10-765-790-118	Sequence 118, App
c 141	15.2	72.4	637	4	US-09-925-065A-749963	Sequence 749963, A	c 214	15.2	72.4	80393	8	US-10-806-038-4	Sequence 4, Appli
c 142	15.2	72.4	637	4	US-09-925-065A-749964	Sequence 749964, A	c 215	15.2	72.4	80393	8	US-10-806-038-4	Sequence 4, Appli
c 143	15.2	72.4	637	4	US-09-925-065A-749965	Sequence 749965, A	c 216	15.2	72.4	80815	7	US-10-322-281-486	Sequence 486, App
c 144	15.2	72.4	649	9	US-10-764-420-2405	Sequence 2405, Ap	c 217	15.2	72.4	80815	7	US-10-322-281-486	Sequence 486, App
c 145	15.2	72.4	649	9	US-10-631-467-993	Sequence 993, App	c 218	15.2	72.4	744802	6	US-10-292-798-1369	Sequence 1369, Ap
c 146	15.2	72.4	656	5	US-10-027-632-127393	Sequence 127393, A	c 219	15.2	72.4	2162598	8	US-10-472-928-4979	Sequence 4979, Ap
c 147	15.2	72.4	656	6	US-10-027-632-127393	Sequence 127393, A	c 220	15.2	72.4	2162598	8	US-10-472-928-4979	Sequence 4979, Ap
c 148	15.2	72.4	657	8	US-10-425-115-101968	Sequence 101968, A	c 221	15.2	72.4	3011208	7	US-10-398-221-2058	Sequence 2058, Ap
c 149	15.2	72.4	657	8	US-10-425-115-101968	Sequence 101968, A	c 222	15.2	72.4	24	3	US-09-940-185-2705	Sequence 2705, Ap
c 150	15.2	72.4	659	7	US-10-367-094-199	Sequence 199, App	c 223	15.2	72.4	600	9	US-10-972-079-17187	Sequence 17187, A
c 151	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 224	15.2	72.4	600	9	US-10-972-079-17188	Sequence 17188, A
c 152	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 225	15.2	72.4	613	4	US-09-925-065A-905145	Sequence 905145, A
c 153	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 226	15.2	72.4	613	4	US-09-925-065A-905145	Sequence 905145, A
c 154	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 227	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 155	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 228	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 156	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 229	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 157	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 230	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 158	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 231	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 159	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 232	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 160	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 233	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 161	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 234	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 162	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 235	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 163	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 236	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 164	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 237	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 165	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 238	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 166	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 239	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 167	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 240	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 168	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 241	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A
c 169	15.2	72.4	659	7	US-10-437-963-6495	Sequence 6495, Ap	c 242	15.2	72.4	729	7	US-10-424-599-106769	Sequence 106769, A



C 389	14.6	69.5	795	8	US-10-425-115-34506	Sequence 34506, A	462	14.4	68.6	121	6	US-10-307-005-265	Sequence 265, App
C 390	14.6	69.5	933	6	US-10-369-493-44654	Sequence 44654, A	C 463	14.4	68.6	121	6	US-10-307-005-266	Sequence 266, App
C 391	14.6	69.5	1006	7	US-10-767-701-13617	Sequence 13617, A	C 464	14.4	68.6	121	6	US-10-307-005-281	Sequence 281, App
C 392	14.6	69.5	1090	7	US-10-437-963-26194	Sequence 26194, A	C 465	14.4	68.6	121	6	US-10-307-005-282	Sequence 282, App
C 393	14.6	69.5	1149	7	US-10-260-238-122	Sequence 122, App	C 466	14.4	68.6	142	3	US-09-954-456-22	Sequence 22, Appl
C 394	14.6	69.5	1197	4	US-09-925-065A-37749	Sequence 37749, A	C 467	14.4	68.6	142	3	US-09-954-456-549	Sequence 549, App
C 395	14.6	69.5	1197	4	US-09-925-065A-37750	Sequence 37750, A	C 468	14.4	68.6	142	3	US-09-954-456-1614	Sequence 1614, App
C 396	14.6	69.5	1209	7	US-10-425-114-679	Sequence 679, App	C 469	14.4	68.6	142	3	US-09-954-531-608	Sequence 608, App
C 397	14.6	69.5	1278	8	US-10-425-115-6340	Sequence 6340, App	C 470	14.4	68.6	142	3	US-09-873-367C-373	Sequence 373, App
C 398	14.6	69.5	1365	8	US-10-739-930-2144	Sequence 2144, App	C 471	14.4	68.6	142	9	US-10-843-641A-373	Sequence 373, App
C 399	14.6	69.5	1374	6	US-10-369-493-27388	Sequence 27388, A	C 472	14.4	68.6	142	9	US-10-843-641A-1675	Sequence 1675, App
C 400	14.6	69.5	1456	7	US-10-437-963-32270	Sequence 32270, A	C 473	14.4	68.6	142	9	US-10-843-641A-3049	Sequence 3049, App
C 401	14.6	69.5	1644	10	US-11-097-143-36431	Sequence 36431, A	C 474	14.4	68.6	142	9	US-10-843-641A-3576	Sequence 3576, App
C 402	14.6	69.5	1677	6	US-10-369-493-32918	Sequence 32918, A	C 475	14.4	68.6	142	9	US-10-843-641A-4641	Sequence 4641, App
C 403	14.6	69.5	1702	7	US-10-425-114-46636	Sequence 16636, A	C 476	14.4	68.6	178	7	US-10-262-511-57	Sequence 57, Appl
C 404	14.6	69.5	1713	7	US-10-282-122A-33173	Sequence 33173, A	C 477	14.4	68.6	202	6	US-10-029-386-21469	Sequence 21469, A
C 405	14.6	69.5	1732	5	US-10-027-632-99921	Sequence 99921, A	C 478	14.4	68.6	219	7	US-10-437-963-92611	Sequence 92611, A
C 406	14.6	69.5	1732	6	US-10-027-632-99921	Sequence 99921, A	C 479	14.4	68.6	281	7	US-10-424-599-66038	Sequence 66038, A
C 407	14.6	69.5	1756	8	US-10-425-115-77320	Sequence 77320, A	C 480	14.4	68.6	288	7	US-10-262-511-49	Sequence 49, Appl
C 408	14.6	69.5	1791	8	US-10-425-115-34505	Sequence 34505, A	C 481	14.4	68.6	326	3	US-09-732-627A-2992	Sequence 2992, App
C 409	14.6	69.5	2102	9	US-10-764-420-1566	Sequence 1566, App	C 482	14.4	68.6	371	3	US-09-918-995-37556	Sequence 37556, A
C 410	14.6	69.5	2145	8	US-10-425-115-149261	Sequence 149261, A	C 483	14.4	68.6	371	3	US-09-918-995-37695	Sequence 37695, A
C 411	14.6	69.5	2614	7	US-10-437-963-784	Sequence 784, App	C 484	14.4	68.6	374	3	US-09-918-995-37606	Sequence 37606, A
C 412	14.6	69.5	2646	6	US-10-369-493-44569	Sequence 44569, A	C 485	14.4	68.6	385	3	US-09-867-701-6528	Sequence 6528, App
C 413	14.6	69.5	2646	6	US-10-369-493-44569	Sequence 44569, A	C 486	14.4	68.6	385	3	US-09-969-034-3574	Sequence 3574, App
C 414	14.6	69.5	3644	10	US-11-097-143-26430	Sequence 26430, A	C 487	14.4	68.6	435	7	US-10-262-511-59	Sequence 59, Appl
C 415	14.6	69.5	4400	10	US-11-097-143-25238	Sequence 25238, A	C 488	14.4	68.6	435	7	US-10-505-680-369	Sequence 369, App
C 416	14.6	69.5	4473	10	US-11-097-143-2826	Sequence 286, App	C 489	14.4	68.6	447	9	US-10-262-511-51	Sequence 51, Appl
C 417	14.6	69.5	4771	10	US-11-097-143-40190	Sequence 40190, A	C 490	14.4	68.6	451	4	US-09-925-065A-563235	Sequence 563235, A
C 418	14.6	69.5	4787	7	US-10-437-963-13387	Sequence 13387, A	C 491	14.4	68.6	454	8	US-10-425-115-113408	Sequence 113408, A
C 419	14.6	69.5	4782	10	US-11-097-143-16742	Sequence 16742, A	C 492	14.4	68.6	478	7	US-10-021-323-1881	Sequence 1881, App
C 420	14.6	69.5	4786	10	US-11-097-143-12409	Sequence 12409, A	C 493	14.4	68.6	479	8	US-10-425-115-136210	Sequence 136210, A
C 421	14.6	69.5	4980	10	US-11-097-143-12409	Sequence 12409, A	C 494	14.4	68.6	484	7	US-10-262-511-47	Sequence 47, Appl
C 422	14.6	69.5	5189	10	US-11-097-143-8428	Sequence 8428, App	C 495	14.4	68.6	485	7	US-10-437-963-23624	Sequence 23624, A
C 423	14.6	69.5	6172	3	US-09-809-920-3	Sequence 3, Appl	C 496	14.4	68.6	496	7	US-10-424-599-124643	Sequence 124643, A
C 424	14.6	69.5	6639	3	US-09-917-800A-1586	Sequence 1586, App	C 497	14.4	68.6	496	8	US-10-425-115-116236	Sequence 116236, A
C 425	14.6	69.5	7052	6	US-10-017-161-2411	Sequence 2411, App	C 498	14.4	68.6	511	4	US-09-925-065A-645610	Sequence 645610, A
C 426	14.6	69.5	7080	10	US-11-097-143-16741	Sequence 16741, A	C 499	14.4	68.6	511	4	US-09-925-065A-645611	Sequence 645611, A
C 427	14.6	69.5	9145	6	US-10-311-455-862	Sequence 862, App	500	14.4	68.6	526	4	US-09-925-065A-457144	Sequence 457144, A
C 428	14.6	69.5	17491	6	US-10-017-161-1995	Sequence 1995, App							
C 429	14.6	69.5	18877	10	US-11-097-143-40189	Sequence 40189, A							
C 430	14.6	69.5	30143	10	US-11-097-143-25237	Sequence 25237, A							
C 431	14.6	69.5	38998	8	US-10-719-993-6963	Sequence 6963, App							
C 432	14.6	69.5	38998	8	US-10-719-993-6963	Sequence 6963, App							
C 433	14.6	69.5	163156	7	US-10-741-601-5668	Sequence 5668, App							
C 434	14.6	69.5	167343	3	US-09-962-436-281	Sequence 281, App							
C 435	14.6	69.5	167343	3	US-09-964-824A-273	Sequence 273, App							
C 436	14.6	69.5	167343	9	US-10-843-641A-2740	Sequence 2740, App							
C 437	14.6	69.5	167343	9	US-10-843-641A-5576	Sequence 5576, App							
C 438	14.6	69.5	238417	7	US-10-461-862-98	Sequence 98, Appl							
C 439	14.6	69.5	247544	7	US-10-322-636-55	Sequence 55, Appl							
C 440	14.6	69.5	256157	5	US-10-087-192-1204	Sequence 1204, App							
C 441	14.6	69.5	256157	7	US-10-322-281-776	Sequence 776, App							
C 442	14.6	69.5	1980090	8	US-10-719-993-6815	Sequence 6815, App							
C 443	14.6	69.5	1980090	8	US-10-741-600-17676	Sequence 17676, A							
C 444	14.4	68.6	25	8	US-10-719-900-709979	Sequence 709979, A							
C 445	14.4	68.6	25	9	US-10-956-157-48992	Sequence 48992, A							
C 446	14.4	68.6	25	9	US-10-956-157-49005	Sequence 49005, A							
C 447	14.4	68.6	25	10	US-11-060-756-50513	Sequence 50513, A							
C 448	14.4	68.6	25	10	US-11-060-756-50526	Sequence 50526, A							
C 449	14.4	68.6	29	8	US-10-015-989A-49	Sequence 49, Appl							
C 450	14.4	68.6	41	7	US-10-377-972C-8	Sequence 8, Appl							
C 451	14.4	68.6	41	7	US-10-377-972C-9	Sequence 9, Appl							
C 452	14.4	68.6	60	3	US-09-908-975-8744	Sequence 8744, App							
C 453	14.4	68.6	96	3	US-09-294-093B-5076	Sequence 5076, App							
C 454	14.4	68.6	121	6	US-10-307-005-81	Sequence 81, Appl							
C 455	14.4	68.6	121	6	US-10-307-005-82	Sequence 82, Appl							
C 456	14.4	68.6	121	6	US-10-307-005-85	Sequence 85, Appl							
C 457	14.4	68.6	121	6	US-10-307-005-86	Sequence 86, Appl							
C 458	14.4	68.6	121	6	US-10-307-005-125	Sequence 125, App							
C 459	14.4	68.6	121	6	US-10-307-005-126	Sequence 126, App							
C 460	14.4	68.6	121	6	US-10-307-005-193	Sequence 193, App							
C 461	14.4	68.6	121	6	US-10-307-005-194	Sequence 194, App							

## ALIGNMENTS

RESULT 1  
US-10-805-973-3  
; Sequence 3, Application US/10805973  
; Publication No. US20050208506A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhao, Chengyan  
; APPLICANT: Ascenzi, Robert  
; APPLICANT: Singh, Bijay K.  
; TITLE OF INVENTION: Methods and Compositions for Analyzing  
; FILE OF INVENTION: AHASL Genes  
; FILE REFERENCE: 038867/271254  
; CURRENT APPLICATION NUMBER: US/10/805,973  
; CURRENT FILING DATE: 2004-03-22  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 21  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Primer MU-F  
US-10-805-973-3

Query Match 100.0%; Score 21; DB 9; Length 21;  
Best Local Similarity 100.0%; Pred. No. 0.44; Indels 0;  
Matches 21; Conservative 0; Mismatches 0; Gaps 0;

QY 1 CGTCTCCCTATGATCCGAAC 21  
|||||

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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:08:01 ; Search time 155.698 Seconds  
(without alignments)  
123.418 Million cell updates/sec

Title: US-10-805-973-3

Perfect score: 21

Sequence: 1 cgtgcgcctatgatccgaac 21

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 6247088 seqs, 457523669 residues

Total number of hits satisfying chosen parameters: 12494176

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

Published Applications NA New.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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1	18.4	87.6	1788	11 US-11-152-903-1	Sequence 1, Appl
2	18.4	87.6	1788	11 US-11-152-903-3	Sequence 3, Appl
3	18.4	87.6	1788	11 US-11-152-903-5	Sequence 5, Appl
4	18.4	87.6	1788	11 US-11-152-903-7	Sequence 7, Appl
5	18.4	87.6	1788	11 US-11-152-903-9	Sequence 9, Appl
6	18.4	87.6	1788	11 US-11-152-903-11	Sequence 11, Appl
7	17.4	82.9	1403	7 US-10-509-121-35	Sequence 35, Appl
8	17.4	82.9	2279	7 US-10-509-121-37	Sequence 37, Appl
9	17.4	82.9	2294	7 US-10-509-121-5	Sequence 5, Appl
10	17.4	82.9	2294	7 US-10-509-121-7	Sequence 7, Appl
11	17.4	82.9	2300	7 US-10-509-121-3	Sequence 3, Appl
12	17.4	82.9	2301	7 US-10-509-121-1	Sequence 1, Appl
13	17.4	82.9	2301	7 US-10-509-121-38	Sequence 38, Appl
14	15.2	72.4	25	7 US-10-310-914A-1167940	Sequence 1167940,
15	15.2	72.4	211	8 US-11-021-492-678	Sequence 678, App
16	15.2	72.4	656	11 US-11-043-752-1505	Sequence 1505, Ap
17	15.2	72.4	878	7 US-10-750-185-55829	Sequence 55829, A
18	15.2	72.4	878	7 US-10-750-623-55829	Sequence 55829, A
19	14.8	70.5	25	11 US-11-121-849-476470	Sequence 476470,
20	14.8	70.5	964	7 US-10-454-437-107	Sequence 107, App
21	14.8	70.5	1473	7 US-10-750-185-59361	Sequence 59361, A

22	14.8	70.5	1473	7	US-10-750-623-59361	Sequence 59361, A
23	14.8	70.5	2519	7	US-10-750-185-34016	Sequence 34016, A
24	14.8	70.5	2519	7	US-10-750-623-34016	Sequence 34016, A
25	14.8	70.5	2724	7	US-10-454-437-103	Sequence 103, App
26	14.8	70.5	120697	11	US-11-121-086-48	Sequence 48, Appl
27	14.8	70.5	169047	11	US-11-121-086-15	Sequence 15, Appl
28	14.8	70.5	197781	11	US-11-112-908-33	Sequence 33, Appl
29	14.8	70.5	217623	11	US-11-112-908-33	Sequence 33, Appl
30	14.6	69.5	201	7	US-10-995-561-50404	Sequence 50404, A
31	14.6	69.5	329	11	US-11-128-061-3066	Sequence 3066, Ap
32	14.6	69.5	329	11	US-11-128-061-6708	Sequence 6708, Ap
33	14.6	69.5	329	11	US-11-128-049-3066	Sequence 3066, Ap
34	14.6	69.5	329	11	US-11-128-049-6708	Sequence 6708, Ap
35	14.6	69.5	991	7	US-10-750-185-40498	Sequence 40498, A
36	14.6	69.5	991	7	US-10-750-623-40498	Sequence 40498, A
37	14.6	69.5	1849	11	US-11-136-527-565	Sequence 565, App
38	14.6	69.5	7683	11	US-11-136-527-2173	Sequence 2173, Ap
39	14.6	69.5	165156	7	US-10-995-561-13304	Sequence 13304, A
40	14.4	68.6	23	7	US-10-310-914A-228001	Sequence 228001,
41	14.4	68.6	783	7	US-10-510-321-4	Sequence 4, Appl
42	14.4	68.6	994	11	US-11-183-914-19	Sequence 19, Appl
43	14.4	68.6	999	7	US-10-131-826A-395	Sequence 395, App
44	14.4	68.6	1404	7	US-10-509-121-36	Sequence 36, Appl
45	14.4	68.6	2479	7	US-10-750-185-57062	Sequence 57062, A
46	14.4	68.6	2479	7	US-10-750-623-57062	Sequence 57062, A
47	14.4	68.6	56952	11	US-11-124-368A-2909	Sequence 2909, Ap
48	14.4	68.6	98862	11	US-11-121-086-76	Sequence 76, Appl
49	14.4	68.6	186442	11	US-11-121-086-104	Sequence 104, App
50	14.4	68.6	189252	11	US-11-121-086-54	Sequence 54, Appl
51	14.2	67.6	25	11	US-11-136-527-179354	Sequence 179354,
52	14.2	67.6	50	11	US-11-175-859-70901	Sequence 70901, A
53	14.2	67.6	177	11	US-11-031-737A-33	Sequence 33, Appl
54	14.2	67.6	201	7	US-10-995-561-2066	Sequence 2066, Ap
55	14.2	67.6	201	7	US-10-995-561-2069	Sequence 2069, Ap
56	14.2	67.6	201	7	US-10-995-561-19893	Sequence 19893, A
57	14.2	67.6	201	7	US-10-995-561-20076	Sequence 20076, A
58	14.2	67.6	201	7	US-10-995-561-20463	Sequence 20463, A
59	14.2	67.6	201	7	US-10-995-561-25996	Sequence 25996, A
60	14.2	67.6	201	7	US-10-995-561-70233	Sequence 70233, A
61	14.2	67.6	201	7	US-10-995-561-73250	Sequence 73250, A
62	14.2	67.6	201	7	US-11-136-527-3605	Sequence 3605, Ap
63	14.2	67.6	586	11	US-11-136-527-7701	Sequence 7701, A
64	14.2	67.6	586	11	US-11-136-527-7701	Sequence 7701, A
65	14.2	67.6	1296	7	US-10-750-185-29165	Sequence 29165, A
66	14.2	67.6	1486	11	US-11-084-508-3	Sequence 3, Appl
67	14.2	67.6	1486	11	US-11-055-637-69	Sequence 69, Appl
68	14.2	67.6	1486	11	US-11-055-637-71	Sequence 71, Appl
69	14.2	67.6	1486	11	US-11-055-637-80	Sequence 80, Appl
70	14.2	67.6	1505	11	US-11-055-637-79	Sequence 79, Appl
71	14.2	67.6	1513	11	US-11-094-575-1	Sequence 1, Appl
72	14.2	67.6	1519	11	US-11-094-575-1	Sequence 1, Appl
73	14.2	67.6	1519	11	US-11-151-847-1	Sequence 1, Appl
74	14.2	67.6	1521	11	US-11-091-883-28	Sequence 28, Appl
75	14.2	67.6	1737	11	US-11-091-883-174	Sequence 174, App
76	14.2	67.6	1737	11	US-10-750-185-50384	Sequence 50384, A
77	14.2	67.6	2001	7	US-10-750-623-50384	Sequence 50384, A
78	14.2	67.6	2001	7	US-10-750-185-25849	Sequence 25849, A
79	14.2	67.6	2020	7	US-10-750-623-25849	Sequence 25849, A
80	14.2	67.6	2020	7	US-11-128-061-601	Sequence 601, App
81	14.2	67.6	2208	11	US-11-128-049-601	Sequence 601, App
82	14.2	67.6	2208	11	US-11-031-737A-4	Sequence 4, Appl
83	14.2	67.6	2331	11	US-11-031-737A-1	Sequence 1, Appl
84	14.2	67.6	2657	11	US-10-995-561-40	Sequence 40, Appl
85	14.2	67.6	4432	7	US-11-031-737A-3	Sequence 3, Appl
86	14.2	67.6	5128	11	US-11-150-888-11	Sequence 11, Appl
87	14.2	67.6	5136	11	US-10-995-561-13419	Sequence 13419, A
88	14.2	67.6	27403	7	US-10-995-561-13444	Sequence 13444, A
89	14.2	67.6	29618	7	US-11-117-187-207	Sequence 207, App
90	14.2	67.6	82596	11	US-11-124-368A-2896	Sequence 2896, Ap
91	14.2	67.6	91561	11	US-11-117-187-208	Sequence 208, App
92	14.2	67.6	94905	11	US-11-124-368A-2895	Sequence 2895, Ap
93	14.2	67.6	96109	11	US-11-124-368A-2885	Sequence 2885, Ap
94	14.2	67.6	100000	11	US-11-124-368A-2885	Sequence 2885, Ap

c 95	14.2	67.6	120697	11	US-11-121-086-48	Sequence 48, Appl	c 168	13.6	64.8	201	11	US-11-124-367A-26410	Sequence 26410, A
c 96	14.2	67.6	149382	7	US-10-995-561-13272	Sequence 13272, A	c 169	13.6	64.8	201	11	US-11-124-367A-26469	Sequence 26469, A
c 97	14.2	67.6	149419	11	US-11-112-908-48	Sequence 48, Appl	c 170	13.6	64.8	201	11	US-11-124-367A-30321	Sequence 30321, A
c 98	14.2	67.6	161726	11	US-11-112-908-48	Sequence 48, Appl	c 171	13.6	64.8	201	11	US-11-124-367A-30322	Sequence 30322, A
c 99	14.2	67.6	161726	11	US-11-112-908-48	Sequence 52, Appl	c 172	13.6	64.8	600	7	US-10-750-185-3318	Sequence 3318, Ap
c 100	14.2	67.6	166111	11	US-11-112-908-47	Sequence 47, Appl	c 173	13.6	64.8	600	7	US-10-750-623-3318	Sequence 3318, Ap
c 101	14.2	67.6	260309	7	US-10-933-025-23	Sequence 23, Appl	c 174	13.6	64.8	644	6	US-10-063-703-55	Sequence 55, Appl
c 102	14.2	67.6	305312	7	US-10-995-561-13236	Sequence 13236, A	c 175	13.6	64.8	644	11	US-11-102-240-55	Sequence 55, Appl
c 103	14.2	67.6	380749	7	US-10-995-561-13216	Sequence 13216, A	c 176	13.6	64.8	659	7	US-10-750-185-40489	Sequence 40489, A
c 104	14.2	67.6	1080000	7	US-10-928-446A-1	Sequence 1, Appl	c 177	13.6	64.8	659	7	US-10-750-623-40489	Sequence 40489, A
c 105	14.2	67.6	1080000	7	US-10-928-446A-181	Sequence 181, App	c 178	13.6	64.8	885	11	US-11-136-527-394	Sequence 394, App
c 106	14.2	67.6	1080000	7	US-10-928-446A-183	Sequence 183, App	c 179	13.6	64.8	897	5	US-09-978-360A-204	Sequence 204, App
c 107	14.2	67.6	1080000	7	US-10-928-446A-185	Sequence 185, App	c 180	13.6	64.8	1113	7	US-10-525-674-35	Sequence 37, Appl
c 108	14.2	67.6	1080000	7	US-10-928-446A-187	Sequence 187, App	c 181	13.6	64.8	1113	7	US-10-525-674-37	Sequence 37, Appl
c 109	14.2	67.6	1080000	7	US-10-928-446A-189	Sequence 189, App	c 182	13.6	64.8	1121	7	US-10-750-185-41338	Sequence 41338, A
c 110	14.2	67.6	1080000	7	US-10-928-446A-191	Sequence 191, App	c 183	13.6	64.8	1121	7	US-10-750-623-41338	Sequence 41338, A
c 111	14.2	67.6	1080000	7	US-10-928-446A-193	Sequence 193, App	c 184	13.6	64.8	1176	7	US-10-750-185-60783	Sequence 60783, A
c 112	14.2	67.6	1080000	7	US-10-928-446A-195	Sequence 195, App	c 185	13.6	64.8	1176	7	US-10-750-623-60783	Sequence 60783, A
c 113	14.2	67.6	1080000	7	US-10-928-446A-197	Sequence 197, App	c 186	13.6	64.8	1229	7	US-10-750-185-50769	Sequence 50769, A
c 114	14.2	67.6	1080000	7	US-10-928-446A-199	Sequence 199, App	c 187	13.6	64.8	1229	7	US-10-750-623-50769	Sequence 50769, A
c 115	14.2	67.6	1080000	7	US-10-928-446A-201	Sequence 201, App	c 188	13.6	64.8	1232	7	US-10-750-185-54564	Sequence 54564, A
c 116	14.2	67.6	1082144	11	US-11-117-187-211	Sequence 211, App	c 189	13.6	64.8	1232	7	US-10-750-623-54564	Sequence 54564, A
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c 118	14	66.7	4291	11	US-11-175-859-78768	Sequence 78768, A	c 191	13.6	64.8	1251	7	US-10-750-623-52860	Sequence 52860, A
c 119	14	66.7	4507	11	US-11-024-959-246	Sequence 246, App	c 192	13.6	64.8	1352	7	US-10-750-185-27965	Sequence 27965, A
c 120	14	66.7	4507	11	US-11-136-527-1960	Sequence 1960, Ap	c 193	13.6	64.8	1352	7	US-10-750-623-27965	Sequence 27965, A
c 121	13.8	65.7	20	7	US-10-310-914A-877888	Sequence 877888,	c 194	13.6	64.8	1377	7	US-10-750-185-41502	Sequence 41502, A
c 122	13.8	65.7	25	11	US-11-121-849-129844	Sequence 129844,	c 195	13.6	64.8	1377	7	US-10-750-623-41502	Sequence 41502, A
c 123	13.8	65.7	25	11	US-11-121-849-451390	Sequence 451390,	c 196	13.6	64.8	1400	11	US-11-136-527-6266	Sequence 6266, Ap
c 124	13.8	65.7	25	11	US-11-121-849-516745	Sequence 516745,	c 197	13.6	64.8	1400	11	US-11-136-527-2170	Sequence 2170, Ap
c 125	13.8	65.7	201	7	US-10-995-561-3579	Sequence 3579, Ap	c 198	13.6	64.8	1917	11	US-11-226-701-14	Sequence 14, Appl
c 126	13.8	65.7	201	7	US-10-995-561-3988	Sequence 3988, Ap	c 199	13.6	64.8	1922	7	US-10-750-185-55146	Sequence 55146, A
c 127	13.8	65.7	201	7	US-10-995-561-25172	Sequence 25172, A	c 200	13.6	64.8	1922	7	US-10-750-623-55146	Sequence 55146, A
c 128	13.8	65.7	734	11	US-11-120-308-31	Sequence 31, Appl	c 201	13.6	64.8	1960	11	US-11-024-959-136	Sequence 136, App
c 129	13.8	65.7	1728	7	US-10-750-185-42417	Sequence 42417, A	c 202	13.6	64.8	1960	7	US-10-750-185-34451	Sequence 34451, A
c 130	13.8	65.7	1728	7	US-10-750-623-42417	Sequence 42417, A	c 203	13.6	64.8	1960	7	US-10-750-623-34451	Sequence 34451, A
c 131	13.8	65.7	2115	11	US-11-136-527-3007	Sequence 3007, Ap	c 204	13.6	64.8	1962	7	US-10-750-185-44857	Sequence 44857, A
c 132	13.8	65.7	2121	11	US-11-055-822-47	Sequence 47, Appl	c 205	13.6	64.8	1962	7	US-10-750-623-44857	Sequence 44857, A
c 133	13.8	65.7	2432	11	US-11-136-527-3714	Sequence 3714, Ap	c 206	13.6	64.8	1964	11	US-11-157-996-1	Sequence 1, Appl
c 134	13.8	65.7	2991	8	US-11-072-512-1527	Sequence 1527, Ap	c 207	13.6	64.8	2001	11	US-11-043-752-3895	Sequence 3895, Ap
c 135	13.8	65.7	3201	7	US-10-750-185-35734	Sequence 35734, A	c 208	13.6	64.8	2059	11	US-11-124-367A-243	Sequence 243, App
c 136	13.8	65.7	3201	7	US-10-750-623-35734	Sequence 35734, A	c 209	13.6	64.8	2242	11	US-11-124-367A-241	Sequence 241, App
c 137	13.8	65.7	91561	11	US-11-136-527-494	Sequence 494, App	c 210	13.6	64.8	2249	11	US-11-136-527-2388	Sequence 2388, Ap
c 138	13.8	65.7	91561	11	US-11-124-368A-2896	Sequence 2896, Ap	c 211	13.6	64.8	2263	7	US-10-750-185-49178	Sequence 49178, A
c 139	13.8	65.7	93112	7	US-10-995-561-13234	Sequence 13234, A	c 212	13.6	64.8	2263	7	US-10-750-623-49178	Sequence 49178, A
c 140	13.8	65.7	114801	11	US-11-121-086-22	Sequence 22, Appl	c 213	13.6	64.8	2495	11	US-11-124-367A-242	Sequence 242, App
c 141	13.8	65.7	157230	11	US-11-112-908-64	Sequence 64, Appl	c 214	13.6	64.8	2721	11	US-11-124-367A-240	Sequence 240, App
c 142	13.8	65.7	170508	11	US-11-112-908-62	Sequence 62, Appl	c 215	13.6	64.8	2738	11	US-11-122-329-66	Sequence 66, Appl
c 143	13.8	65.7	173115	11	US-11-112-908-65	Sequence 65, Appl	c 216	13.6	64.8	2976	8	US-11-072-512-654	Sequence 654, App
c 144	13.8	65.7	340000	11	US-11-102-978-3	Sequence 3, Appl	c 217	13.6	64.8	3037	7	US-10-750-185-55538	Sequence 55538, A
c 145	13.6	64.8	25	11	US-11-121-849-55563	Sequence 55563, A	c 218	13.6	64.8	3037	7	US-10-750-623-55538	Sequence 55538, A
c 146	13.6	64.8	25	11	US-11-136-527-296394	Sequence 296394,	c 219	13.6	64.8	3070	7	US-10-927-641-113	Sequence 113, App
c 147	13.6	64.8	29	7	US-10-392-234A-24	Sequence 24, Appl	c 220	13.6	64.8	3112	7	US-10-750-185-61978	Sequence 61978, A
c 148	13.6	64.8	121	11	US-11-124-367A-4815	Sequence 4815, A	c 221	13.6	64.8	3112	7	US-10-750-623-61978	Sequence 61978, A
c 149	13.6	64.8	124	11	US-11-124-367A-4814	Sequence 4814, Ap	c 222	13.6	64.8	3135	8	US-11-072-512-12	Sequence 12, Appl
c 150	13.6	64.8	201	7	US-10-995-561-18481	Sequence 18481, A	c 223	13.6	64.8	3594	7	US-10-750-185-35736	Sequence 35736, A
c 151	13.6	64.8	201	7	US-10-995-561-18760	Sequence 18760, A	c 224	13.6	64.8	3594	7	US-10-750-623-35736	Sequence 35736, A
c 152	13.6	64.8	201	7	US-10-995-561-40639	Sequence 40639, A	c 225	13.6	64.8	3905	7	US-10-750-185-29868	Sequence 29868, A
c 153	13.6	64.8	201	7	US-10-995-561-40640	Sequence 40640, A	c 226	13.6	64.8	3905	7	US-10-750-623-29868	Sequence 29868, A
c 154	13.6	64.8	201	11	US-11-124-368A-14839	Sequence 14839, A	c 227	13.6	64.8	4108	11	US-11-124-367A-152	Sequence 152, App
c 155	13.6	64.8	201	11	US-11-124-368A-14844	Sequence 14844, A	c 228	13.6	64.8	4509	7	US-10-678-790-45	Sequence 45, Appl
c 156	13.6	64.8	201	11	US-11-124-368A-14961	Sequence 14961, A	c 229	13.6	64.8	28672	6	US-10-893-483-62	Sequence 62, Appl
c 157	13.6	64.8	201	11	US-11-124-368A-14962	Sequence 14962, A	c 230	13.6	64.8	45517	7	US-10-995-561-13455	Sequence 13455, A
c 158	13.6	64.8	201	11	US-11-124-367A-3153	Sequence 3153, Ap	c 231	13.6	64.8	50484	6	US-10-893-483-63	Sequence 63, Appl
c 159	13.6	64.8	201	11	US-11-124-367A-3154	Sequence 3154, Ap	c 232	13.6	64.8	52705	11	US-11-124-367A-5059	Sequence 5059, Ap
c 160	13.6	64.8	201	11	US-11-124-367A-4736	Sequence 4736, Ap	c 233	13.6	64.8	67126	7	US-10-995-561-13342	Sequence 16, Appl
c 161	13.6	64.8	201	11	US-11-124-367A-4737	Sequence 4737, Ap	c 234	13.6	64.8	76329	11	US-11-150-888-16	Sequence 16, Appl
c 162	13.6	64.8	201	11	US-11-124-367A-4737	Sequence 4737, Ap	c 235	13.6	64.8	79122	11	US-11-117-187-200	Sequence 200, App
c 163	13.6	64.8	201	11	US-11-124-367A-4762	Sequence 4762, Ap	c 236	13.6	64.8	83712	7	US-10-995-561-13366	Sequence 13366, A
c 164	13.6	64.8	201	11	US-11-124-367A-4789	Sequence 4789, Ap	c 237	13.6	64.8	85682	11	US-11-117-187-205	Sequence 205, App
c 165	13.6	64.8	201	11	US-11-124-367A-4790	Sequence 4790, Ap	c 238	13.6	64.8	95262	11	US-11-117-187-188	Sequence 188, App
c 166	13.6	64.8	201	11	US-11-124-367A-21567	Sequence 21567, A	c 239	13.6	64.8	95604	11	US-11-124-367A-5097	Sequence 5097, Ap
c 167	13.6	64.8	201	11	US-11-124-367A-21643	Sequence 21643, A	c 240	13.6	64.8	100000	11	US-11-124-368A-2901	Sequence 2901, Ap



c 241	13.6	64.8	100000	11	US-11-124-368A-2913	Sequence 2913, Ap	c 314	13.4	63.8	159660	11	US-11-112-908-43	Sequence 43, Appl	
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c 252	13.6	64.8	268685	7	US-10-933-025-22	Sequence 22, Appl	c 325	13.2	62.9	198	7	US-10-467-657-889	Sequence 889, App	
c 253	13.6	64.8	611587	11	US-11-117-187-209	Sequence 209, App	c 326	13.2	62.9	201	7	US-10-995-561-19126	Sequence 19126, A	
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c 273	13.4	63.8	201	11	US-11-124-368A-7492	Sequence 7492, Ap	c 346	13.2	62.9	1080	11	US-11-037-243-55	Sequence 55, Appl	
c 274	13.4	63.8	234	7	US-10-467-657-3313	Sequence 3313, Ap	c 347	13.2	62.9	1172	7	US-10-750-185-53378	Sequence 53378, A	
c 275	13.4	63.8	497	11	US-11-128-061-3015	Sequence 3015, Ap	c 348	13.2	62.9	1172	7	US-10-750-623-53378	Sequence 53378, A	
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c 292	13.4	63.8	2186	8	US-11-072-512-146	Sequence 146, App	c 365	13.2	62.9	1645	7	US-10-750-185-26045	Sequence 26045, A	
c 293	13.4	63.8	2415	7	US-10-467-657-1929	Sequence 1929, Ap	c 366	13.2	62.9	1645	7	US-10-750-623-26045	Sequence 26045, A	
c 294	13.4	63.8	2631	7	US-10-276-233A-11	Sequence 11, Appl	c 367	13.2	62.9	1716	11	US-11-043-889-14	Sequence 14, Appl	
c 295	13.4	63.8	2641	8	US-11-072-512-478	Sequence 478, App	c 368	13.2	62.9	1752	8	US-11-072-512-1514	Sequence 1514, Ap	
c 296	13.4	63.8	2727	11	US-11-122-329-28	Sequence 28, Appl	c 369	13.2	62.9	1818	11	US-11-136-527-2861	Sequence 2861, Ap	
c 297	13.4	63.8	3204	8	US-11-072-512-1112	Sequence 1112, Ap	c 370	13.2	62.9	1915	10	US-11-090-878-21	Sequence 21, Appl	
c 298	13.4	63.8	3417	11	US-11-080-991-47	Sequence 47, Appl	c 371	13.2	62.9	1917	11	US-11-043-889-12	Sequence 12, Appl	
c 299	13.4	63.8	3446	7	US-10-821-234-180	Sequence 180, Appl	c 372	13.2	62.9	1961	11	US-11-132-864-42	Sequence 42, Appl	
c 300	13.4	63.8	4099	7	US-10-750-185-33532	Sequence 33532, A	c 373	13.2	62.9	1962	7	US-10-821-234-434	Sequence 434, App	
c 301	13.4	63.8	4099	7	US-10-750-623-33532	Sequence 33532, A	c 374	13.2	62.9	1972	7	US-10-750-185-28416	Sequence 28416, A	
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c 308	13.4	63.8	8512	11	US-11-124-368A-46	Sequence 46, Appl	c 381	13.2	62.9	2162	11	US-11-136-527-1001	Sequence 1001, Ap	
c 309	13.4	63.8	9347	7	US-10-240-708-36	Sequence 36, Appl	c 382	13.2	62.9	2187	10	US-11-090-878-7	Sequence 7, Appl	
c 310	13.4	63.8	20492	11	US-11-095-668-2	Sequence 2, Appl	c 383	13.2	62.9	2223	7	US-10-467-657-6265	Sequence 6265, Ap	
c 311	13.4	63.8	48203	7	US-10-995-561-13378	Sequence 13378, A	c 384	13.2	62.9	2262	8	US-11-072-512-764	Sequence 764, App	
c 312	13.4	63.8	84409	7	US-10-995-561-13494	Sequence 13494, A	c 385	13.2	62.9	2283	8	US-11-072-512-1	Sequence 1, Appl	
c 313	13.4	63.8	100000	11	US-11-124-368A-2890	Sequence 2890, Ap	c 386	13.2	62.9	2316	11	US-11-147-047-8	Sequence 8, Appl	



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OM nucleic - nucleic search, using sw model

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(without alignments)  
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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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32	21	100.0	1797	15	AY210406 Triticum
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90	16.2	77.1	1680	6	CQ866946 Sequence
91	16.2	77.1	1901	15	BT016825 Zea mays

92	16.2	77.1	1935	6	AX705283	Sequence	165	15.8	75.2	465	6	AX438855	Sequence
93	16.2	77.1	1969	6	I93632	Sequence 1	166	15.8	75.2	465	6	AX439874	Sequence
94	16.2	77.1	1969	6	I93633	Sequence 2	167	15.8	75.2	2337	1	AY551076	Sequence
95	16.2	77.1	1969	6	I93634	Sequence 3	168	15.8	75.2	4600	1	AF014054	Rhizobium
96	16.2	77.1	1969	6	AR227736	Sequence	169	15.8	75.2	4707	5	GGBRMPROT	X91638 G-gallus mR
97	16.2	77.1	1969	6	AR227737	Sequence	170	15.8	75.2	5481	2	AY551073	Drosophila
98	16.2	77.1	1969	6	AR227738	Sequence	171	15.8	75.2	5487	6	CQ363868	Sequence
99	16.2	77.1	2089	6	AI9545	Synthetic n	172	15.8	75.2	8856	1	AY551075	Drosophila
100	16.2	77.1	2141	6	AI9547	Synthetic n	173	15.8	75.2	11851	1	AE009504	Brucella
101	16.2	77.1	2185	15	AK109628	Oryza sat	174	15.8	75.2	13070	1	AF039306	Bradyrhiz
102	16.2	77.1	2208	15	ASU55852	U55852 Amaranthus	175	15.8	75.2	18912	13	ILU28832	Infectious
103	16.2	77.1	2226	6	AI9546	Synthetic n	176	15.8	75.2	18913	13	ILU28832	Infectious
104	16.2	77.1	2279	6	BD169500	A gene co	177	15.8	75.2	18913	6	AR649718	Sequence
105	16.2	77.1	2279	6	AX300475	Sequence	178	15.8	75.2	18913	6	AR649718	Sequence
106	16.2	77.1	2279	15	AB049823	Oryza sat	179	15.8	75.2	31271	6	CQ609503	Sequence
107	16.2	77.1	2301	6	AX300473	Sequence	180	15.8	75.2	71807	15	AB025613	Arabidops
108	16.2	77.1	2301	15	AB049822	Oryza sat	181	15.8	75.2	110659	14	AC020331	Drosophila
109	16.2	77.1	2544	15	ZMAUAS109	X63554 Z.mays gene	182	15.8	75.2	110000	1	AE014291	Continuation (14 o
110	16.2	77.1	2545	6	I07769	Sequence 25	183	15.8	75.2	110000	1	AE017223	Continuation (14 o
111	16.2	77.1	2664	15	ZMAUAS108	X63553 Z.mays gene	184	15.8	75.2	110000	1	AE017283	Continuation (10 o
112	16.2	77.1	2967	6	I07767	Sequence 23	185	15.8	75.2	110000	1	BA000012	Continuation (12 o
113	16.2	77.1	3237	6	CQ719762	Sequence	186	15.8	75.2	110000	1	BA000019	Continuation (57 o
114	16.2	77.1	6041	8	AB033036	Homo sapi	187	15.8	75.2	110000	1	BA000040	Continuation (83 o
115	16.2	77.1	11202	1	AE006169	Pasteurel	188	15.8	75.2	110000	1	BA000040	Continuation (84 o
116	16.2	77.1	13163	1	AY050714	Salmonell	189	15.8	75.2	110000	1	EX950851	Continuation (46 o
117	16.2	77.1	18895	6	CQ866935	Sequence	190	15.8	75.2	110000	1	CP000090	Continuation (23 o
118	16.2	77.1	20092	1	AS008804	Salmonell	191	15.8	75.2	110000	15	CR382125	Continuation (7 of
119	16.2	77.1	20984	1	AS008803	Salmonell	192	15.8	75.2	137723	8	AC110814	Homo sapi
120	16.2	77.1	21294	1	BHE556988	Human DNA	193	15.8	75.2	156721	8	AC026839	Homo sapi
121	16.2	77.1	72159	8	AL160161	Human DNA	194	15.8	75.2	159635	8	AC142351	Pan trogl
122	16.2	77.1	89536	14	OSJN00026	Continuation (25 o	195	15.8	75.2	161172	2	AC007839	Drosophila
123	16.2	77.1	110000	1	AE017220	Continuation (31 o	196	15.8	75.2	175689	9	AL645848	Mus muscu
124	16.2	77.1	110000	1	AE017220	Continuation (16 o	197	15.8	75.2	176270	9	AC158402	Mus muscu
125	16.2	77.1	110000	1	BX897699	Continuation (6 of	198	15.8	75.2	177301	6	AC103949	Homo sapi
126	16.2	77.1	110000	1	CP000026	Continuation (3 of	199	15.8	75.2	179603	6	CQ870485	Sequence
127	16.2	77.1	110000	1	CP000026	Continuation (192	200	15.8	75.2	197991	5	AL929109	Zebrafish
128	16.2	77.1	110000	1	CP000075	Continuation (39 o	201	15.8	75.2	199558	14	AP001807	Homo sapi
129	16.2	77.1	110000	1	CP000089	Continuation (40 o	202	15.8	75.2	207520	8	AC091138	Homo sapi
130	16.2	77.1	110000	15	CR382132	Continuation (4 of	203	15.8	75.2	211047	14	AP001461	Homo sapi
131	16.2	77.1	110000	15	AP008208	Continuation (184	204	15.8	75.2	220640	14	AC162093	Bos tauru
132	16.2	77.1	110000	15	AP008210	Continuation (3 of	205	15.8	75.2	223513	14	AC111919	Rattus no
133	16.2	77.1	110000	15	AP008210	Continuation (192	206	15.8	75.2	226146	14	CR932399	Danio rer
134	16.2	77.1	110000	15	AP008210	Continuation (192	207	15.8	75.2	233404	14	AC103483	Rattus no
135	16.2	77.1	144778	15	OSJN00146	Continuation (192	208	15.8	75.2	234613	14	AC094287	Rattus no
136	16.2	77.1	145423	15	AP005841	Continuation (192	209	15.8	75.2	238036	14	AC117123	Rattus no
137	16.2	77.1	150050	1	ML0672112	Continuation (184	210	15.8	75.2	239459	14	AC094719	Rattus no
138	16.2	77.1	151936	15	OSJN00244	Continuation (184	211	15.8	75.2	244620	14	AC129650	Rattus no
139	16.2	77.1	151936	15	OSJN00244	Continuation (184	212	15.8	75.2	248489	14	AC162662	Bos tauru
140	16.2	77.1	153252	15	AP004861	Continuation (184	213	15.8	75.2	282600	15	AY664418	Zea mays
141	16.2	77.1	156492	14	AC020582	Continuation (184	214	15.8	75.2	28398	14	AC095595	Rattus no
142	16.2	77.1	159741	9	AC120373	Continuation (184	215	15.8	75.2	300703	1	AE015940	Clostridi
143	16.2	77.1	161921	14	AC133224	Continuation (184	216	15.8	75.2	305335	14	AC108268	Rattus no
144	16.2	77.1	163690	14	AC131509	Continuation (184	217	15.8	75.2	306854	2	AE003797	Drosophila
145	16.2	77.1	167082	5	BX470188	Continuation (184	218	15.8	75.2	339089	15	AY664414	Zea mays
146	16.2	77.1	174604	5	AC138565	Continuation (184	219	15.8	75.2	348498	1	EX571872	Photorhab
147	16.2	77.1	175472	8	AC025883	Continuation (184	220	15.8	75.2	349142	1	EX572599	Rhodopaeu
148	16.2	77.1	177539	8	AC068327	Continuation (184	221	15.8	75.2	349880	6	AX770910	Sequence
149	16.2	77.1	185243	14	AC072198	Continuation (184	222	15.4	73.3	29	6	BD271384	Molecular
150	16.2	77.1	186148	8	AL772284	Continuation (184	223	15.4	73.3	29	6	AX049215	Sequence
151	16.2	77.1	224179	9	AC130219	Continuation (184	224	15.4	73.3	29	6	AX049820	Sequence
152	16.2	77.1	256050	1	AL627274	Continuation (184	225	15.4	73.3	29	6	AX050818	Sequence
153	16.2	77.1	30928	1	AE016836	Continuation (184	226	15.4	73.3	29	6	AX511111	Sequence
154	16.2	77.1	301846	1	AE016913	Continuation (184	227	15.4	73.3	758	1	AY150833	Listeria
155	16.2	77.1	306050	1	BX321858	Continuation (184	228	15.4	73.3	758	1	AY150834	Listeria
156	16.2	76.2	124876	8	AC004167	Continuation (184	229	15.4	73.3	866	6	CQ717620	Sequence
157	16.2	76.2	130354	9	AC125347	Continuation (184	230	15.4	73.3	1705	8	AB053317	Homo sapi
158	16.2	76.2	154829	14	AC141788	Continuation (184	231	15.4	73.3	2495	8	AB168899	Macaca fa
159	16.2	76.2	161501	14	AC141677	Continuation (184	232	15.4	73.3	3199	6	AX713991	Sequence
160	16.2	76.2	198831	9	AC122355	Continuation (184	233	15.4	73.3	3199	6	AX055978	Homo sapi
161	16.2	76.2	208083	9	AC133514	Continuation (184	234	15.4	73.3	3457	6	AX747473	Sequence
162	16.2	76.2	214219	8	AL691418	Continuation (184	235	15.4	73.3	3457	8	AC092310	Homo sapi
163	15.8	75.2	281	8	HSZ80448	Continuation (184	236	15.4	73.3	3985	8	BC063876	Homo sapi
164	15.8	75.2	342	5	DQ055717	Megalapte	237	15.4	73.3	8504	1	AY512403	Listeria

238	15.4	73.3	8533	1	AY512399	AY512399 Listeria	C 311	15.4	73.3	159314	14	AC162860	AC162860 Mus muscu
239	15.4	73.3	8542	1	AY512500	AY512500 Listeria	C 312	15.4	73.3	166465	9	CR932528	AL732528 Mouse DNA
240	15.4	73.3	8543	1	AY512393	AY512393 Listeria	C 313	15.4	73.3	169587	14	CR932000	CR932000 Danio rer
241	15.4	73.3	8543	1	AY512400	AY512400 Listeria	C 314	15.4	73.3	172885	9	AC110555	AC110555 Mus muscu
242	15.4	73.3	8543	1	AY512425	AY512425 Listeria	C 315	15.4	73.3	177551	14	AC099634	AC099634 Mus muscu
243	15.4	73.3	8543	1	AY512427	AY512427 Listeria	C 316	15.4	73.3	186497	14	CR933524	CR933524 Danio rer
244	15.4	73.3	8543	1	AY512434	AY512434 Listeria	C 317	15.4	73.3	188716	14	AC147323	AC147323 Pan trogl
245	15.4	73.3	8543	1	AY512440	AY512440 Listeria	C 318	15.4	73.3	190220	14	AC163923	AC163923 Bos tauru
246	15.4	73.3	8543	1	AY512447	AY512447 Listeria	C 319	15.4	73.3	199080	14	AC127232	AC127232 Mus muscu
247	15.4	73.3	8543	1	AY512448	AY512448 Listeria	C 320	15.4	73.3	201610	9	AL732430	AL732430 Mouse DNA
248	15.4	73.3	8543	1	AY512451	AY512451 Listeria	C 321	15.4	73.3	208024	8	AC010900	AC010900 Homo sapi
249	15.4	73.3	8543	1	AY512456	AY512456 Listeria	C 322	15.4	73.3	240230	14	AC094364	AC094364 Rattus no
250	15.4	73.3	8543	1	AY512458	AY512458 Listeria	C 323	15.4	73.3	243486	14	AC153262	AC153262 Bos tauru
251	15.4	73.3	8543	1	AY512464	AY512464 Listeria	C 324	15.4	73.3	254553	14	AC160370	AC160370 Bos tauru
252	15.4	73.3	8546	1	AY512394	AY512394 Listeria	C 325	15.4	73.3	256941	14	AC156238	AC156238 Bos tauru
253	15.4	73.3	8546	1	AY512395	AY512395 Listeria	C 326	15.4	73.3	256941	14	AC156238	AC156238 Bos tauru
254	15.4	73.3	8546	1	AY512406	AY512406 Listeria	C 327	15.4	73.3	256941	14	AC156238	AC156238 Bos tauru
255	15.4	73.3	8546	1	AY512408	AY512408 Listeria	C 328	15.4	73.3	256941	14	AC156238	AC156238 Bos tauru
256	15.4	73.3	8546	1	AY512414	AY512414 Listeria	C 329	15.4	73.3	256941	14	AC156238	AC156238 Bos tauru
257	15.4	73.3	8546	1	AY512416	AY512416 Listeria	C 330	15.2	72.4	285	8	HSJ8170	HSJ8170 Homo sapi
258	15.4	73.3	8546	1	AY512420	AY512420 Listeria	C 331	15.2	72.4	415	6	AX385809	AX385809 Sequence
259	15.4	73.3	8546	1	AY512423	AY512423 Listeria	C 332	15.2	72.4	527	10	BV328453	BV328453 S241P6235
260	15.4	73.3	8546	1	AY512424	AY512424 Listeria	C 333	15.2	72.4	578	1	AF517568	AF517568 Desulfito
261	15.4	73.3	8546	1	AY512429	AY512429 Listeria	C 334	15.2	72.4	632	8	HSJ26311	HSJ26311 Homo sapi
262	15.4	73.3	8546	1	AY512431	AY512431 Listeria	C 335	15.2	72.4	642	6	AR388478	AR388478 Sequence
263	15.4	73.3	8546	1	AY512432	AY512432 Listeria	C 336	15.2	72.4	666	6	AR676848	AR676848 Sequence
264	15.4	73.3	8546	1	AY512435	AY512435 Listeria	C 337	15.2	72.4	940	8	HUMIL2A1	M33199 Human inter
265	15.4	73.3	8546	1	AY512436	AY512436 Listeria	C 338	15.2	72.4	972	2	AY562982	AY562982 Drosophil
266	15.4	73.3	8546	1	AY512437	AY512437 Listeria	C 339	15.2	72.4	1053	6	AR385200	AR385200 Sequence
267	15.4	73.3	8546	1	AY512441	AY512441 Listeria	C 340	15.2	72.4	1219	2	AKL15839	AKL15839 Clona int
268	15.4	73.3	8546	1	AY512445	AY512445 Listeria	C 341	15.2	72.4	1329	5	BC076943	BC076943 Xenopus t
269	15.4	73.3	8546	1	AY512449	AY512449 Listeria	C 342	15.2	72.4	1587	5	AB120295	AB120295 Takifugu
270	15.4	73.3	8546	1	AY512450	AY512450 Listeria	C 343	15.2	72.4	1605	15	AK099799	AK099799 Oryza sat
271	15.4	73.3	8546	1	AY512455	AY512455 Listeria	C 344	15.2	72.4	1630	6	CO596259	CO596259 Sequence
272	15.4	73.3	8546	1	AY512461	AY512461 Listeria	C 345	15.2	72.4	1656	6	AX534871	AX534871 Sequence
273	15.4	73.3	8546	1	AY512463	AY512463 Listeria	C 346	15.2	72.4	1693	4	AB038268	AB038268 Tursiops
274	15.4	73.3	8546	1	AY512465	AY512465 Listeria	C 347	15.2	72.4	1774	2	TRBKPP56	M37784 Trypanosoma
275	15.4	73.3	8546	1	AY512466	AY512466 Listeria	C 348	15.2	72.4	1789	2	AY572498	AY572498 Drosophil
276	15.4	73.3	8546	1	AY512467	AY512467 Listeria	C 349	15.2	72.4	1952	8	HUMIL2PR	M13879 Human inter
277	15.4	73.3	8546	1	AY512491	AY512491 Listeria	C 350	15.2	72.4	2000	6	AX656665	AX656665 Sequence
278	15.4	73.3	8546	1	AY512492	AY512492 Listeria	C 351	15.2	72.4	2020	15	AK069807	AK069807 Oryza sat
279	15.4	73.3	8549	1	AY512481	AY512481 Listeria	C 352	15.2	72.4	2139	8	BC023017	BC023017 Homo sapi
280	15.4	73.3	8650	1	AY512452	AY512452 Listeria	C 353	15.2	72.4	2356	2	AKL16415	AKL16415 Clona int
281	15.4	73.3	8650	1	AY512471	AY512471 Listeria	C 354	15.2	72.4	2367	6	CQ724696	CQ724696 Sequence
282	15.4	73.3	8650	1	AY512473	AY512473 Listeria	C 355	15.2	72.4	2387	2	AY119567	AY119567 Drosophil
283	15.4	73.3	8651	1	AY512391	AY512391 Listeria	C 356	15.2	72.4	2508	1	BFU64312	U64312 Bacillus fi
284	15.4	73.3	8651	1	AY512396	AY512396 Listeria	C 357	15.2	72.4	2623	9	RATNACE	L14284 Rattus norv
285	15.4	73.3	8651	1	AY512398	AY512398 Listeria	C 358	15.2	72.4	2624	6	I35597	I35597 Sequence 15
286	15.4	73.3	8651	1	AY512401	AY512401 Listeria	C 359	15.2	72.4	2722	6	CQ845753	CQ845753 Sequence
287	15.4	73.3	8651	1	AY512410	AY512410 Listeria	C 360	15.2	72.4	2722	8	AKL131230	AKL131230 Homo sapi
288	15.4	73.3	8651	1	AY512415	AY512415 Listeria	C 361	15.2	72.4	2820	6	AR449815	AR449815 Sequence
289	15.4	73.3	8651	1	AY512426	AY512426 Listeria	C 362	15.2	72.4	3144	6	CQ848018	CQ848018 Sequence
290	15.4	73.3	8651	1	AY512439	AY512439 Listeria	C 363	15.2	72.4	3150	6	AX534814	AX534814 Sequence
291	15.4	73.3	8651	1	AY512457	AY512457 Listeria	C 364	15.2	72.4	3162	8	BC096341	BC096341 Homo sapi
292	15.4	73.3	8651	1	AY512459	AY512459 Listeria	C 365	15.2	72.4	3234	8	BC096343	BC096343 Homo sapi
293	15.4	73.3	8651	1	AY512460	AY512460 Listeria	C 366	15.2	72.4	3306	2	TRBKPPGKM	M33775 T.brueci ki
294	15.4	73.3	8651	1	AY512474	AY512474 Listeria	C 367	15.2	72.4	3352	2	TBPGKBC	X03370 Trypanosoma
295	15.4	73.3	8651	1	AY512489	AY512489 Listeria	C 368	15.2	72.4	3404	6	AR204198	AR204198 Sequence
296	15.4	73.3	8651	1	AY512501	AY512501 Listeria	C 369	15.2	72.4	3404	6	AR637547	AR637547 Sequence
297	15.4	73.3	10049	1	AB006133	AB006133 Pasteurel	C 370	15.2	72.4	3482	8	HSJ5282	HSJ5282 Homo sapi
298	15.4	73.3	24949	1	AF498403	AF498403 Pseudomon	C 371	15.2	72.4	3630	6	CQ596258	CQ596258 Sequence
299	15.4	73.3	69863	8	AC026717	AC026717 Homo sapi	C 372	15.2	72.4	4081	8	HUMGUANCYC	L13436 Homo sapien
300	15.4	73.3	92488	14	AP007315	AP007315 Lotus cor	C 373	15.2	72.4	4110	15	AY437823	AY437823 Kluyverom
301	15.4	73.3	104940	8	AC035147	AC035147 Homo sapi	C 374	15.2	72.4	4190	6	AR204261	AR204261 Sequence
302	15.4	73.3	107559	5	EX897670	EX897670 Zebrafish	C 375	15.2	72.4	4190	6	AR637610	AR637610 Sequence
303	15.4	73.3	110000	15	BA000045	Continuation (46 of	C 376	15.2	72.4	4449	15	GMCHLH	AJ001091 Glycine m
304	15.4	73.3	110000	15	AB016819	Continuation (7 of	C 377	15.2	72.4	4517	1	AF354273	AF354273 Lactobaci
305	15.4	73.3	110000	15	AB017346	Continuation (8 of	C 378	15.2	72.4	4776	15	AY437824S2	AY437825 Kluyverom
306	15.4	73.3	110000	15	AB017346_07	Continuation (9 of	C 379	15.2	72.4	5162	2	TBPGK4	X05890 Trypanosoma
307	15.4	73.3	125429	14	AC163967	AC163967 Loxodonta	C 380	15.2	72.4	5224	2	TBPGK2	X05889 Trypanosoma
308	15.4	73.3	130811	14	AC165208	AC165208 Loxodonta	C 381	15.2	72.4	5227	15	AY227810	AY227810 Emericell
309	15.4	73.3	139377	8	AC026692	AC026692 Homo sapi	C 382	15.2	72.4	5450	1	AF262214	AF262214 Oryza sat
310	15.4	73.3	148202	9	AL928553	AL928553 Mouse DNA	C 383	15.2	72.4	6050	1	STVCYSJIHA	M23007 S.typhimuri

384	15.2	72.4	6334	2	AV705681	AV705681 Oikopleur	457	15.2	72.4	110000	1	BA000039_03	Continuation (4 of
385	15.2	72.4	6452	1	AB016764	AB016764 Escherich	458	15.2	72.4	110000	1	BA000040_86	Continuation (87 o
386	15.2	72.4	6684	8	HSIL05	X06955 Human inter	C 459	15.2	72.4	110000	1	BA000043_13	Continuation (14 o
387	15.2	72.4	6752	8	AF359939	AF359939 Homo sapi	C 460	15.2	72.4	110000	1	BA000043_14	Continuation (15 o
388	15.2	72.4	7177	8	AB005647	AB005647 Homo sapi	461	15.2	72.4	110000	1	EX936398_36	Continuation (37 o
C 389	15.2	72.4	72937	8	CQ872937	CQ872937 Sequence	462	15.2	72.4	110000	1	CP000057_09	Continuation (10 o
390	15.2	72.4	9339	8	HSIL25FL	X67285 Homo sapien	463	15.2	72.4	110000	2	AE002665_0	AE002665 Drosophil
C 391	15.2	72.4	9863	15	AY437828	AY437828 Kluverom	464	15.2	72.4	110000	2	AE002665_1	Continuation (2 of
392	15.2	72.4	10097	1	AE009649	AE009649 Brucella	465	15.2	72.4	110000	6	BD426633_08	Continuation (9 of
C 393	15.2	72.4	10302	1	AE006319	AE006319 Lactococc	466	15.2	72.4	110000	6	BD426633_09	Continuation (10 o
394	15.2	72.4	10686	1	AE013921	AE013921 Yersinia	467	15.2	72.4	110000	6	AR274513_08	Continuation (9 of
395	15.2	72.4	10818	1	AE015669	AE015669 Shewanell	468	15.2	72.4	110000	6	AR274513_09	Continuation (10 o
396	15.2	72.4	10859	1	AE015806	AE015806 Shewanell	469	15.2	72.4	110000	6	AR632719_08	Continuation (9 of
397	15.2	72.4	11168	1	AE004425	AE004425 Vibrio ch	470	15.2	72.4	110000	6	AR632719_09	Continuation (10 o
C 398	15.2	72.4	11481	6	AR204358	AR204358 Sequence	C 471	15.2	72.4	110000	14	AC095603_2	Continuation (3 of
C 399	15.2	72.4	11481	6	AR637707	AR637707 Sequence	C 472	15.2	72.4	110000	14	AC095603_3	Continuation (4 of
400	15.2	72.4	13313	1	U32767	U32767 Haemophilus	C 473	15.2	72.4	110000	14	AC139250_0	AC139250 Homo sapi
401	15.2	72.4	13916	1	AE009507	AE009507 Brucella	474	15.2	72.4	110000	14	AP006493_4	Continuation (5 of
C 402	15.2	72.4	14375	1	AE009631	AE009631 Brucella	475	15.2	72.4	110000	14	CT009753_07	Continuation (8 of
C 403	15.2	72.4	14506	15	CR382124_17	Continuation (18 o	C 476	15.2	72.4	110000	14	TANN2_09	Continuation (10 o
404	15.2	72.4	16103	15	AC019502	AC019502 Drosophil	477	15.2	72.4	110000	15	CR382121_00	CR382121 Kluverom
405	15.2	72.4	16157	14	AC012931	AC012931 Drosophil	478	15.2	72.4	110000	15	CR382122_00	CR382122 Kluverom
C 406	15.2	72.4	20029	1	AE008834	AE008834 Salmonell	C 479	15.2	72.4	110000	15	CR382122_01	Continuation (2 of
407	15.2	72.4	24199	6	BD184782	BD184782 Nucleic a	480	15.2	72.4	110000	15	CR382123_00	CR382123 Kluverom
C 408	15.2	72.4	29500	2	AF036694	AF036694 Caenorhab	481	15.2	72.4	110000	15	CR382124_00	CR382124 Kluverom
C 409	15.2	72.4	32838	2	AF003385	AF003385 Caenorhab	482	15.2	72.4	110000	15	CR382125_00	CR382125 Kluverom
410	15.2	72.4	32880	1	AY144118	AY144118 Photorhab	483	15.2	72.4	110000	15	CR382126_00	CR382126 Kluverom
411	15.2	72.4	32995	15	AC151931	AC151931 Phaeodact	C 484	15.2	72.4	110000	15	CR382137_11	Continuation (12 o
C 412	15.2	72.4	37210	3	AC160630	AC160630 Uncultu	485	15.2	72.4	110000	15	AE016816_7	Continuation (8 of
C 413	15.2	72.4	39824	6	BD184776	BD184776 Nucleic a	486	15.2	72.4	110000	15	AE017347_07	Continuation (8 of
C 414	15.2	72.4	40715	2	AC132166	AC132166 Drosophil	487	15.2	72.4	110000	15	AP008207_077	Continuation (78 o
C 415	15.2	72.4	43487	2	AF016420	AF016420 Caenorhab	488	15.2	72.4	110000	15	AP008209_063	Continuation (64 o
C 416	15.2	72.4	54841	14	AC017535	AC017535 Drosophil	C 489	15.2	72.4	110000	15	AP008209_260	Continuation (361
C 417	15.2	72.4	62204	1	AE017224_11	Continuation (12 o	490	15.2	72.4	110000	15	AP008209_293	Continuation (292
418	15.2	72.4	63215	14	AC061968	AC061968 Homo sapi	C 491	15.2	72.4	110000	15	AP008213_291	AC005033 Homo sapi
419	15.2	72.4	64357	14	AC101115	AC101115 Mus muscu	C 492	15.2	72.4	113843	8	AC005033	AC142507 Medicago
420	15.2	72.4	65612	2	AE003597_3	Continuation (4 of	493	15.2	72.4	117666	15	AC142507	AC142507 Medicago
C 421	15.2	72.4	65792	6	AR408752	AR408752 Sequence	494	15.2	72.4	120882	14	AC010689	AC010689 Drosophil
C 422	15.2	72.4	65792	6	AK067456	AK067456 Sequence	495	15.2	72.4	124103	15	AC122166	AC122166 Medicago
C 423	15.2	72.4	67027	14	AC135342	AC135342 Homo sapi	496	15.2	72.4	126228	8	AC008543	AC008543 Homo sapi
C 424	15.2	72.4	67203	14	AC090264	AC090264 Homo sapi	497	15.2	72.4	126475	14	AC123787	AC123787 Homo sapi
C 425	15.2	72.4	71948	8	AL831782	AL831782 Human DNA	C 498	15.2	72.4	129053	15	AC142096	AC142096 Medicago
C 426	15.2	72.4	78688	15	AE017349_11	Continuation (12 o	499	15.2	72.4	129440	15	AC135228	AC135228 Oryza sat
C 427	15.2	72.4	79929	14	AC139541	AC139541 Homo sapi	C 500	15.2	72.4	130973	15	AP003813	AP003813 Oryza sat
C 428	15.2	72.4	82336	15	AC007168	AC007168 Arabidops							
C 429	15.2	72.4	84157	15	AB028615	AB028615 Arabidops							
C 430	15.2	72.4	85389	14	AC139309	AC139309 Takifugu							
431	15.2	72.4	87500	1	AF027868	AF027868 Bacillus							
C 432	15.2	72.4	90831	8	AC003065	AC003065 Homo sapi							
C 433	15.2	72.4	91772	6	BD184765	BD184765 Nucleic a							
434	15.2	72.4	92345	8	AC128687	AC128687 Homo sapi							
C 435	15.2	72.4	94203	14	AC023907	AC023907 Homo sapi							
C 436	15.2	72.4	94720	6	AX695545	AX695545 Sequence							
437	15.2	72.4	98605	14	AC024574	AC024574 Homo sapi							
C 438	15.2	72.4	100635	8	AC003104	AC003104 Homo sapi							
C 439	15.2	72.4	104150	14	CT010521	CT010521 Medicago							
C 440	15.2	72.4	104780	8	HSIL18SH19	AL21982 Human DNA							
441	15.2	72.4	105035	14	AC145452	AC145452 Zea mays							
C 442	15.2	72.4	106214	15	AP003818	AP003818 Oryza sat							
C 443	15.2	72.4	107381	1	AE014292_11	Continuation (12 o							
C 444	15.2	72.4	107794	1	AE014292_20	Continuation (21 o							
C 445	15.2	72.4	110000	1	AE005174_19	Continuation (20 o							
446	15.2	72.4	110000	1	AE005174_21	Continuation (22 o							
447	15.2	72.4	110000	1	AE005174_35	Continuation (36 o							
448	15.2	72.4	110000	1	RME591985_02	Continuation (3 of							
449	15.2	72.4	110000	1	AE017220_27	Continuation (28 o							
C 450	15.2	72.4	110000	1	AE017220_30	Continuation (31 o							
C 451	15.2	72.4	110000	1	AE017223_20	Continuation (21 o							
C 452	15.2	72.4	110000	1	BA000007_19	Continuation (20 o							
453	15.2	72.4	110000	1	BA000007_21	Continuation (22 o							
454	15.2	72.4	110000	1	BA000007_34	Continuation (35 o							
C 455	15.2	72.4	110000	1	BA000011_08	Continuation (9 of							
C 456	15.2	72.4	110000	1	BA000037_05	Continuation (6 of							

## ALIGNMENTS

RESULT 1	AY273827	AY273827	617 bp	DNA	linear	PLN 04-MAY-2003
LOCUS	AY273827	Triticum aestivum acetohydroxyacid synthase (ima3) gene, partial cds.				
DEFINITION	AY273827	AY273827.1	GI:30258990			
ACCESSION	AY273827					
VERSION	AY273827.1					
KEYWORDS	Triticum aestivum (bread wheat)					
SOURCE	Triticum aestivum					
ORGANISM	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Triticum; Poideae; Triticeae; Triticum.					
REFERENCE	1 (bases 1 to 617)					
AUTHORS	Pozniak, C.J., Hucl, P.J., Birk, I.T. and Singh, B.K.					
TITLE	Molecular Characterization of Imidazolinone Resistance in Common Wheat					
JOURNAL	Unpublished					
REFERENCE	2 (bases 1 to 617)					
AUTHORS	Pozniak, C.J., Hucl, P.J., Birk, I.T. and Singh, B.K.					
TITLE	Direct Submission					
JOURNAL	Submitted (10-APR-2003) Crop Development Centre, Department of Plant Sciences, University of Saskatchewan, 51 Campus Drive, Saskatoon, Saskatchewan S7N 5A8, Canada					



GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 177.692 Seconds  
(without alignments)  
787.645 Million cell updates/sec

Title: US-10-805-973-1

Perfect score: 21

Sequence: 1 ccgcgcgaatgtctatccag 21

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 4996997 seqs, 332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

- N\_Geneseq\_21.\*
- 1: Geneseq1980s.\*
- 2: Geneseq1990s.\*
- 3: Geneseq2000s.\*
- 4: Geneseq2001as.\*
- 5: Geneseq2001bs.\*
- 6: Geneseq2002as.\*
- 7: Geneseq2002bs.\*
- 8: Geneseq2003as.\*
- 9: Geneseq2003bs.\*
- 10: Geneseq2003cs.\*
- 11: Geneseq2003ds.\*
- 12: Geneseq2004as.\*
- 13: Geneseq2004bs.\*
- 14: Geneseq2005s.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	1524	10	Adf50207 Wheat Tea
2	21	100.0	1524	10	Adf50205 Wheat Tea
3	21	100.0	1524	10	Adf50206 Wheat Tea
4	21	100.0	1672	10	Adf50203 Partial T
5	21	100.0	1673	10	Adf50216 Partial A
6	21	100.0	1673	10	Adf50226 Partial A
7	21	100.0	1673	10	Adf50228 Partial A
8	21	100.0	1674	10	Adf50232 Partial A
9	21	100.0	1674	10	Adf50218 Partial A
10	21	100.0	1674	10	Adf50234 Partial A
11	21	100.0	1674	10	Adf50222 Partial A
12	21	100.0	1674	10	Adf50220 Partial A
13	21	100.0	1675	10	Adf50201 Partial T
14	21	100.0	1677	10	Adf50224 Partial A
15	21	100.0	1710	14	Adv11376 Imidazoli
16	21	100.0	1723	14	Adv11358 Imidazoli
17	21	100.0	1756	14	Adv11362 Imidazoli
18	21	100.0	1768	14	Adv11360 Imidazoli
19	21	100.0	1788	14	Adv11372 Durum whe

20	21	100.0	1788	14	ADV11366
21	21	100.0	1788	14	ADV11368
22	21	100.0	1788	14	ADV11364
23	21	100.0	1788	14	ADV11369
24	21	100.0	1788	14	ADV11354
25	21	100.0	1788	14	ADV11374
26	21	100.0	1788	14	ADV11367
27	21	100.0	1788	14	ADV11370
28	19.4	92.4	1673	10	ADF50230
29	19.4	92.4	2461	12	ADO26392
30	19.4	92.4	2520	1	AAQ81459
31	19.4	92.4	2520	2	AAQ11495
32	19.4	92.4	2520	2	AAQ28388
33	19.4	92.4	2520	2	AAQ81182
34	19.4	92.4	2520	2	AAQ33353
35	19.4	92.4	2520	2	AAQ72862
36	19.4	92.4	2702	2	AAV55872
37	19.4	92.4	2702	6	ABA98839
38	19.4	92.4	2930	2	AAQ11494
39	19.4	92.4	2930	2	AAQ28387
40	19.4	92.4	2930	2	AAQ81181
41	19.4	92.4	2930	2	AAQ72863
42	19.4	92.4	2946	1	AAQ81458
43	19.4	92.4	2946	2	AAQ33352
44	17.8	84.8	1095	6	ABK14656
45	17.8	84.8	1916	14	ADY79260
46	17.8	84.8	1925	14	ADY79258
47	17.8	84.8	1936	14	ADY79266
48	17.8	84.8	1940	14	ADY79256
49	17.8	84.8	1956	14	ADY79264
50	17.8	84.8	1985	6	ABK14670
51	17.8	84.8	1986	6	ABK14667
52	17.8	84.8	1986	6	ABK14669
53	17.8	84.8	1986	14	ADY79262
54	16.8	80.0	110000	14	ABE39174_00
55	16.8	80.0	110000	14	ABE39175_19
56	16.8	80.0	110000	14	ABE42401_18
57	16.8	80.0	110000	14	ABE42401_19
58	16.8	80.0	110000	14	ABE42737_05
59	16.8	80.0	110000	14	ABE35723_2
60	16.8	80.0	110000	14	ABE35723_3
61	16.4	78.1	391	9	ACH50201
62	16.4	78.1	2736	11	ABD00591
63	16.2	77.1	247	7	ADS65429
64	16.2	77.1	372	2	AAQ03658
65	16.2	77.1	1478	13	ADO83726
66	16.2	77.1	1604	13	ADX63188
67	16.2	77.1	1625	13	ADX60490
68	16.2	77.1	1680	13	ADS16666
69	16.2	77.1	1935	10	ADF50214
70	16.2	77.1	1959	2	AAQ34551
71	16.2	77.1	1969	2	AAQ34552
72	16.2	77.1	1969	2	AAQ34553
73	16.2	77.1	1969	2	AAV24025
74	16.2	77.1	1969	2	AAV24026
75	16.2	77.1	1969	2	AAV24027
76	16.2	77.1	1969	6	ABE55707
77	16.2	77.1	1969	6	ABE55709
78	16.2	77.1	1969	6	ABE55708
79	16.2	77.1	2000	11	ACL36828
80	16.2	77.1	2089	2	AAQ25380
81	16.2	77.1	2141	2	AAQ25382
82	16.2	77.1	2216	13	ADX09977
83	16.2	77.1	2226	2	AAQ25381
84	16.2	77.1	2279	6	ABK14658
85	16.2	77.1	2279	6	ABN89399
86	16.2	77.1	2294	10	ADD42026
87	16.2	77.1	2294	10	ADD42024
88	16.2	77.1	2300	10	ADD42022
89	16.2	77.1	2301	6	ABK14657
90	16.2	77.1	2301	10	ADD42020
91	16.2	77.1	2404	13	ADT18641
92	16.2	77.1	2546	2	AAQ03661

Adv11366 Durum whe  
Adv11368 Durum whe  
Adv11364 Durum whe  
Adv11369 Durum whe  
Adv11354 Imidazoli  
Adv11374 Durum whe  
Adv11367 Durum whe  
Adv11370 Durum whe  
Adf50230 Partial A  
Ado26392 N tabacum  
Aan81459 C3 mutant  
Aaq11495 Tobacco S  
Aaq28388 Gene from  
Aaq81182 ALS SURA-  
Aat33353 Tobacco h  
Aat72862 Tobacco C  
Aav55872 Plant ace  
Aa98839 N. plumba  
Aaq11494 Tobacco S  
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Aaq81181 ALS SURB-  
Aat72863 Tobacco S  
Aan81458 Hra mutan  
Aat33352 Tobacco h  
Adk14656 Rice acet  
Ady79260 DNA encod  
Ady79258 DNA encod  
Ady79266 DNA encod  
Ady79256 DNA encod  
Ady79264 DNA encod  
Adk14670 cDNA enco  
Abk14667 Rice acet  
Abk14669 cDNA enco  
Ady79262 DNA encod  
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Continuation (20 o  
Continuation (19 o  
Continuation (20 o  
Continuation (6 of  
Continuation (3 of  
Continuation (4 of  
Ach50201 Human leu  
Abd00591 Klebsiell  
Adg65429 Corn seed  
Aaq3658 C3aal6seq  
Aao83726 Plant ful  
Adx63188 Plant ful  
Adx60490 Plant ful  
Ads16666 B. hensel  
Adf50214 Rice ALS/  
Aaq34551 Herbicide  
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Aaq34553 Herbicide  
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Aav24027 AHAS clon  
Abe55707 DNA encod  
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Acl36828 Rice stre  
Aaq25380 Sequence  
Aaq25382 Sequence  
Adx09977 Plant ful  
Aaq25381 Sequence  
Abk14658 cDNA enco  
Abn89399 Rice acet  
Add42026 Rice acet  
Add42024 Rice acet  
Add42022 Rice acet  
Abk14657 Rice acet  
Add42020 Rice acet  
Adt18641 Plant cDN  
Aaq03661 Maize C3

93	16.2	77.1	2967	2	AAQ03659	Aaq03659 Maize C1	c 166	15.2	72.4	3411	13	ACF91674	Acf91674 Human SIR
94	16.2	77.1	3201	12	ACH87580	ACH87580 Human gen	c 167	15.2	72.4	3482	12	ADQ87405	Adq87405 Human tum
95	16.2	77.1	6040	6	ABK92138	ABK92138 Prostate	c 168	15.2	72.4	3482	12	ADQ85051	Adq85051 Human tum
c 96	16.2	77.1	18895	13	ADS16655	ADS16655 B. hensel	c 169	15.2	72.4	3482	13	ACF91673	Acf91673 Human SIR
97	15.8	75.2	460	10	ABX61230	ABX61230 Arabidops	c 170	15.2	72.4	3513	12	ADJ39472	Adj39472 Plant CDN
98	15.8	75.2	465	6	ABK80998	ABK80998 Bacillus	c 171	15.2	72.4	3630	4	ABL17850	Ab117850 Drosophil
99	15.8	75.2	465	6	ABK79979	ABK79979 Bacillus	c 172	15.2	72.4	3630	13	ACN41852	Acn41852 Human dia
c 100	15.8	75.2	687	6	ABQ65737	ABQ65737 Arabidops	c 173	15.2	72.4	3697	2	AAQ10324	Aaq10324 Human Nat
101	15.8	75.2	148	14	ADM16700	ADM16700 Eucalyptu	c 174	15.2	72.4	4081	6	ABK83833	Abk83833 Human CDN
102	15.8	75.2	7782	13	ADS59893	ADS59893 Bacterial	c 175	15.2	72.4	4081	10	ADL13820	Adl13820 Osteoarth
c 103	15.8	75.2	3250	13	ADT44064	Adt44064 Bacterial	c 176	15.2	72.4	4190	9	ACD19144	AcD19144 E. coli 0
c 104	15.8	75.2	5487	4	AA559656	AA559656 Propionib	c 177	15.2	72.4	6752	13	ADS88007	Ads88007 Tumour tr
c 105	15.8	75.2	5487	8	ACF64585	ACF64585 Propionib	c 178	15.2	72.4	7991	13	ADT05514	Adt05514 Haemophil
c 106	15.8	75.2	18912	2	AA144385	AA144385 Infection	c 179	15.2	72.4	9339	3	AAA34840	Aaa34840 Human ade
c 107	15.8	75.2	18912	2	AA144385	AA144385 Infection	c 180	15.2	72.4	9339	3	AAF20962	Aaf20962 Human low
108	15.8	75.2	31271	4	ABL26680	ABL26680 Drosophil	c 181	15.2	72.4	9339	10	ABZ96656	Abz96656 Human nuc
c 109	15.8	75.2	79603	13	ABD32968_7	ABD32968_7	c 182	15.2	72.4	9339	10	ABD20506	Abd20506 Human pul
c 110	15.8	75.2	110000	10	ACF67367_46	ACF67367_46	c 183	15.2	72.4	11481	9	ACD19241	AcD19241 E. coli 0
c 111	15.8	75.2	110000	10	ACF65388_01	ACF65388_01	c 184	15.2	72.4	22421	3	AAA34844	Aaa34844 Human ade
c 112	15.8	75.2	110000	10	ACF65388_02	ACF65388_02	c 185	15.2	72.4	22421	3	AAF20966	Aaf20966 Human low
c 113	15.4	73.3	29	4	AAF16848	AAF16848 KIAA0559	c 186	15.2	72.4	22421	10	ABZ96660	Abz96660 Human nuc
c 114	15.4	73.3	29	4	AAF17492	AAF17492 KIAA0559	c 187	15.2	72.4	22421	10	ADT20510	Adt20510 Human pul
c 115	15.4	73.3	29	4	ACN99429	ACN99429 Primer #3	c 188	15.2	72.4	24199	10	ADC01016	Adc01016 Enterohae
c 116	15.4	73.3	29	6	ABT06633	ABT06633 PDZ domai	c 189	15.2	72.4	39824	10	ADC00831	Adc00831 Enterohae
c 117	15.4	73.3	29	6	ABQ96673	ABQ96673 KIAA 0559	c 190	15.2	72.4	65792	4	AAF28544	Aaf28544 Genomic f
c 118	15.4	73.3	1263	8	ACA43082	ACA43082 Prokaryot	c 191	15.2	72.4	91740	10	ADC00956	Adc00956 Enterohae
c 119	15.4	73.3	2075	10	ADC30805	ADC30805 Human nov	c 192	15.2	72.4	94719	10	ADT955902	Adt955902 Human STA
c 120	15.4	73.3	2482	10	ADI02510	ADI02510 Human CDN	c 193	15.2	72.4	94720	9	ADA02654	Ada02654 Human STA
c 121	15.4	73.3	2513	10	ADC32558	ADC32558 Human nov	c 194	15.2	72.4	94720	10	ADB72392	Adb72392 Human STA
c 122	15.4	73.3	3100	10	ADE28226	ADE28226 Human MDD	c 195	15.2	72.4	104932	14	AE896542	Aeb96542 Human STA
c 123	15.4	73.3	3199	10	ADA53107	ADA53107 Human cod	c 196	15.2	72.4	110000	2	AAT42063_08	Contnuation (9 of
c 124	15.4	73.3	3457	10	ADB62844	ADB62844 Human CDN	c 197	15.2	72.4	110000	2	AAT42063_08	Contnuation (10 of
c 125	15.2	72.4	100	9	AA157742	AA157742 Human N-r	c 198	15.2	72.4	110000	8	ABA90521_08	Contnuation (9 of
c 126	15.2	72.4	415	6	ABN60770	ABN60770 Human can	c 199	15.2	72.4	110000	8	ADA53223_0	Ad53223 Human chr
c 127	15.2	72.4	434	12	ADK15432	ADK15432 Human IL-	c 200	15.2	72.4	119196	13	ADT05647	Adt05647 Haemophil
c 128	15.2	72.4	487	8	ABZ51213	ABZ51213 Aspergill	c 201	14.8	70.5	246	12	ADF99868	Adf99868 Nicotiana
c 129	15.2	72.4	527	12	ADQ62727	ADQ62727 Human int	c 202	14.8	70.5	447	10	ABZ37776	Abz37776 N. gonorr
c 130	15.2	72.4	538	12	ADQ62734	ADQ62734 Human int	c 203	14.8	70.5	447	10	ABZ39588	Abz39588 N. gonorr
c 131	15.2	72.4	630	14	ABE11170	ABE11170 Enterohem	c 204	14.8	70.5	447	11	ABZ41202	Abz41202 N. gonorr
c 132	15.2	72.4	630	14	ABE11170	ABE11170 Enterohem	c 205	14.8	70.5	492	11	ACL33609	ACL33609 Rice abio
c 133	15.2	72.4	642	11	ACH99412	ACH99412 Klebsiell	c 206	14.8	70.5	725	6	ABQ40750	Abq40750 Oligonuc1
c 134	15.2	72.4	666	3	AAF13826	AAF13826 Aspergill	c 207	14.8	70.5	725	6	ABQ40751	Abq40751 Oligonuc1
c 135	15.2	72.4	666	13	ADU57867	ADU57867 Aspergill	c 208	14.8	70.5	760	6	ABQ18990	Abq18990 Oligonuc1
c 136	15.2	72.4	666	13	ADU57867	ADU57867 Aspergill	c 209	14.8	70.5	760	6	ABQ18991	Abq18991 Oligonuc1
c 137	15.2	72.4	666	13	ADU57867	ADU57867 Aspergill	c 210	14.8	70.5	924	10	ACF69314	Acf69314 Photorhab
c 138	15.2	72.4	731	12	ADK15429	ADK15429 Human IL-	c 211	14.8	70.5	1021	14	ABE66936	Aeb66936 Rice geno
c 139	15.2	72.4	777	12	ADQ62732	ADQ62732 Human int	c 212	14.8	70.5	1546	4	AA559773	AA559773 Propionib
c 140	15.2	72.4	810	13	ADS61357	ADS61357 Bacterial	c 213	14.8	70.5	1546	8	ACF64702	Acf64702 Bacteriab
c 141	15.2	72.4	834	8	ACA53626	ACA53626 Prokaryot	c 214	14.8	70.5	1698	13	ADT44975	Adt44975 Bacterial
c 142	15.2	72.4	870	13	ADS61559	ADS61559 Bacterial	c 215	14.8	70.5	1710	2	AAV40751	Aav40751 C. felis
c 143	15.2	72.4	903	13	ADS49807	ADS49807 Bacterial	c 216	14.8	70.5	1710	2	AAV40746	Aav40746 C. felis
c 144	15.2	72.4	903	13	ADS55320	ADS55320 Bacterial	c 217	14.8	70.5	1710	4	AAD21171	Aad21171 Ctenoceph
c 145	15.2	72.4	940	3	AAAF34839	AAAF34839 Human ade	c 218	14.8	70.5	1710	4	AAAD21173	AAad21173 Ctenoceph
c 146	15.2	72.4	940	3	AAAF34839	AAAF34839 Human ade	c 219	14.8	70.5	1755	13	ADS56497	Ad56497 Bacterial
c 147	15.2	72.4	940	10	ABZ96655	ABZ96655 Human nuc	c 220	14.8	70.5	1785	2	AAV40752	Aav40752 C. felis
c 148	15.2	72.4	940	11	ABD20505	ABD20505 Human pul	c 221	14.8	70.5	1785	2	AAV40753	Aav40753 C. felis
c 149	15.2	72.4	1053	11	ACH96134	ACH96134 Klebsiell	c 222	14.8	70.5	1788	2	AAV40747	Aav40747 C. felis
c 150	15.2	72.4	1219	12	ADQ08745	ADQ08745 Ciona int	c 223	14.8	70.5	1788	2	AAV40748	Aav40748 C. felis
c 151	15.2	72.4	1630	4	AB117851	AB117851 Drosophil	c 224	14.8	70.5	1841	10	ABT13451	Abt13451 DNA encod
c 152	15.2	72.4	1656	6	ABZ78288	ABZ78288 A. niger	c 225	14.8	70.5	1914	11	ABD00416	Abd00416 Klebsiell
c 153	15.2	72.4	2000	8	ADA73209	ADA73209 Rice gene	c 226	14.8	70.5	2030	14	ADZ75894	Adz75894 Ebola vir
c 154	15.2	72.4	2624	2	AAQ54846	AAQ54846 Sequence	c 227	14.8	70.5	2039	10	ABT13455	Abt13455 DNA encod
c 155	15.2	72.4	2624	3	AAZ92177	AAZ92177 N-acetylgl	c 228	14.8	70.5	2087	11	ACN44177	Acn44177 Mouse MRN
c 156	15.2	72.4	2722	12	ADQ67239	ADQ67239 Novel hum	c 229	14.8	70.5	2172	4	AAO40404	Aao40404 Ebola vir
c 157	15.2	72.4	2820	12	ADL02793	ADL02793 DNA encod	c 230	14.8	70.5	2224	3	AAZ51038	Aaz51038 Ebola vir
c 158	15.2	72.4	2988	14	ADV43003	ADV43003 Human psy	c 231	14.8	70.5	2298	3	AAZ87189	Aaz87189 Ebola vir
c 159	15.2	72.4	3144	10	ADL13821	ADL13821 Osteoarth	c 232	14.8	70.5	2298	4	AAF76953	Aaf76953 Ebola vir
c 160	15.2	72.4	3144	13	ADQ89893	ADQ89893 Antagonis	c 233	14.8	70.5	2298	12	ADL27460	Adl27460 Nucleotid
c 161	15.2	72.4	3144	14	ADQ89893	ADQ89893 Antagonis	c 234	14.8	70.5	2298	14	ADY62752	Ady62752 Ebola gly
c 162	15.2	72.4	3150	6	ABZ78231	ABZ78231 A. niger	c 235	14.8	70.5	2658	8	ADA69662	Ada69662 Rice gene
c 163	15.2	72.4	3336	13	ACN41854	ACN41854 Human dia	c 236	14.8	70.5	2658	12	ADJ39547	Adj39547 Plant CDN
c 164	15.2	72.4	3404	9	ACD19081	ACD19081 E. coli 0	c 237	14.8	70.5	2692	4	ABL18825	Ab118825 Drosophil
c 165	15.2	72.4	3411	13	ACN41853	ACN41853 Human dia	c 238	14.8	70.5	2736	11	ABD00080	Abd00080 Klebsiell

239	14.8	70.5	2801	2	AAV40749	Av40749 C. felis	312	14.6	69.5	700	14	AD294839	Ad294839 Aspergill
240	14.8	70.5	2801	2	AAV40750	Av40750 C. felis	c 313	14.6	69.5	708	6	ADK62997	ADK62997 Rat seque
241	14.8	70.5	2801	4	AAV40750	Av40750 C. felis	c 314	14.6	69.5	843	13	ADT43230	ADT43230 Bacterial
242	14.8	70.5	2832	13	ADR484702	Adr484702 Aspergill	c 315	14.6	69.5	854	5	AAW78369	AAW78369 DNA encod
243	14.8	70.5	2836	2	AAV40745	Av40745 C. felis	c 316	14.6	69.5	871	12	ADM67038	ADM67038 Murine ad
244	14.8	70.5	2836	2	AAV40744	Av40744 C. felis	c 317	14.6	69.5	908	2	AAV07168	AAV07168 Corn dihy
245	14.8	70.5	2836	4	AAV40744	Av40744 C. felis	c 318	14.6	69.5	924	5	AAV07168	AAV07168 DNA encod
246	14.8	70.5	3170	4	ABL16228	Ab16228 Drosophil	c 319	14.6	69.5	958	13	ADK33815	ADK33815 Plant ful
247	14.8	70.5	3663	4	ABL17534	Ab17534 Drosophil	c 320	14.6	69.5	973	13	ADK59942	ADK59942 Plant ful
248	14.8	70.5	4802	12	ADO00892	Ado00892 Fruit fly	c 321	14.6	69.5	996	5	AAV87322	AAV87322 DNA encod
249	14.8	70.5	4802	12	ADO07698	Ado07698 Fly polyn	c 322	14.6	69.5	1005	13	ADK59548	ADK59548 Plant ful
250	14.8	70.5	5110	4	ABL16221	Ab16221 Drosophil	c 323	14.6	69.5	1055	12	ADM6137	ADM6137 Rat Gil a
251	14.8	70.5	5651	5	AAI66195	Aai66195 Human FSH	c 324	14.6	69.5	1083	12	ADN06149	ADN06149 Rat Gil-H
252	14.8	70.5	5651	6	ABK40237	Abk40237 DNA encod	c 325	14.6	69.5	1083	12	ADN06145	ADN06145 Rat Gil-H
253	14.8	70.5	6051	4	ABL18824	Ab18824 Drosophil	c 326	14.6	69.5	1083	12	ADN06143	ADN06143 Rat Gil-H
254	14.8	70.5	6186	5	AAI66194	Aai66194 Human FSH	c 327	14.6	69.5	1083	12	ADN06147	ADN06147 Rat Gil-H
255	14.8	70.5	6186	6	ABK40236	Abk40236 DNA encod	c 328	14.6	69.5	1098	11	ACH97555	ACH97555 Klebsiell
256	14.8	70.5	6213	5	AAI66196	Aai66196 Human FSH	c 329	14.6	69.5	1109	13	ADK62048	ADK62048 Plant ful
257	14.8	70.5	6213	6	ABK40238	Abk40238 DNA encod	c 330	14.6	69.5	1135	2	AAV74823	AAV74823 staphyloc
258	14.8	70.5	6467	10	ACC71530	Acc71530 VRC6052	c 331	14.6	69.5	1136	13	ADK33864	ADK33864 Plant ful
259	14.8	70.5	6561	10	ACC71524	Acc71524 VRC6003	c 332	14.6	69.5	1154	13	ADK48097	ADK48097 Plant ful
260	14.8	70.5	6624	10	ACC71523	Acc71523 VRC6002	c 333	14.6	69.5	1260	12	ADP29067	ADP29067 Human sec
261	14.8	70.5	6887	10	ACC71526	Acc71526 VRC6005	c 334	14.6	69.5	1263	11	ACH99572	ACH99572 Klebsiell
262	14.8	70.5	6914	10	ACC71529	Acc71529 VRC6008	c 335	14.6	69.5	1278	13	ADK32582	ADK32582 Plant ful
263	14.8	70.5	7044	10	ACC71527	Acc71527 VRC6006	c 336	14.6	69.5	1335	5	AAV66746	AAV66746 DNA encod
264	14.8	70.5	7154	10	ACC71521	Acc71521 VRC6000	c 337	14.6	69.5	1344	13	ADK59822	ADK59822 Bacterial
265	14.8	70.5	7188	10	ACC71522	Acc71522 VRC6001	c 338	14.6	69.5	1344	13	ADK59822	ADK59822 Bacterial
266	14.8	70.5	7272	2	AAV59393	Av59393 plasmid p	c 339	14.6	69.5	1394	8	ACC50989	ACC50989 Human bla
267	14.8	70.5	7272	2	AAV59393	Av59393 plasmid p	c 340	14.6	69.5	1394	8	ABL29997	ABL29997 Drosophil
268	14.8	70.5	7285	2	AAV59392	Av59392 plasmid p	c 341	14.6	69.5	1458	5	AAV87131	AAV87131 DNA encod
269	14.8	70.5	7285	2	AAV59392	Av59392 plasmid p	c 342	14.6	69.5	1474	3	AAV66608	AAV66608 Zea may
270	14.8	70.5	7762	4	ABL16220	Ab16220 Drosophil	c 343	14.6	69.5	1488	5	AAV87330	AAV87330 DNA encod
271	14.8	70.5	8199	10	ACC71549	Acc71549 VRC6604	c 344	14.6	69.5	1512	13	ADK46170	ADK46170 Plant ful
272	14.8	70.5	8439	10	ACC71548	Acc71548 VRC6603	c 345	14.6	69.5	1563	13	ADK59850	ADK59850 Bacterial
273	14.8	70.5	9106	12	ADR85419	Adr85419 Ebola vir	c 346	14.6	69.5	1637	14	AEK26965	AEK26965 Pinus rad
274	14.8	70.5	9263	4	ABL15172	Ab15172 Drosophil	c 347	14.6	69.5	1650	10	ADK56333	ADK56333 Human gen
275	14.8	70.5	10169	2	AAQ53522	Aaq53522 Cellulose	c 348	14.6	69.5	1650	10	ADK56333	ADK56333 Human gen
276	14.8	70.5	10783	2	AAV52831	Av52831 Acetobact	c 349	14.6	69.5	1653	4	ABL25689	ABL25689 Drosophil
277	14.8	70.5	16836	2	AAV52831	Av52831 Acetobact	c 350	14.6	69.5	1695	13	ADK33725	ADK33725 Plant ful
278	14.8	70.5	18959	13	ADK48337	Adk48337 Zaire ebo	c 351	14.6	69.5	1714	12	ADO42284	ADO42284 Human NOV
279	14.8	70.5	18959	13	ADK48337	Adk48337 Zaire ebo	c 352	14.6	69.5	1745	6	AAV33481	AAV33481 Human dru
280	14.8	70.5	18959	13	ADK48335	Adk48335 Zaire ebo	c 353	14.6	69.5	1780	5	AAV87332	AAV87332 DNA encod
281	14.8	70.5	40152	4	ABL17408	Ab17408 Drosophil	c 354	14.6	69.5	1780	13	ADO84647	ADO84647 Plant ful
282	14.8	70.5	62231	11	ACN44176	Acn44176 Mouse gen	c 355	14.6	69.5	1827	8	ACF74951	ACF74951 Staphyloc
283	14.8	70.5	100779	10	ACF65386	6	c 356	14.6	69.5	1846	13	ADR23157	ADR23157 Smooth pi
284	14.8	70.5	110000	10	ACF67367	22	c 357	14.6	69.5	1869	5	AAV89822	AAV89822 DNA encod
285	14.8	70.5	110000	11	ACN44150	2	c 358	14.6	69.5	1869	5	AAV89822	AAV89822 DNA encod
286	14.6	69.5	100	8	ACD69326	AcD69326 E. coli K	c 359	14.6	69.5	1870	7	AAV72441	AAV72441 DNA encod
287	14.6	69.5	100	8	ACD69326	AcD69326 E. coli K	c 360	14.6	69.5	1884	9	ADA29504	ADA29504 Human dru
288	14.6	69.5	100	8	ACD69327	AcD69327 E. coli K	c 361	14.6	69.5	1894	2	AAV33795	AAV33795 Class II
289	14.6	69.5	184	6	AB199439	Ab199439 Mouse isc	c 362	14.6	69.5	1894	2	AAV77328	AAV77328 Class II
290	14.6	69.5	184	12	ADM67127	Adm67127 Murine ad	c 363	14.6	69.5	1894	2	AAV58020	AAV58020 Synchocy
291	14.6	69.5	184	12	ADM67127	Adm67127 Murine ad	c 364	14.6	69.5	1894	4	AAV09781	AAV09781 Synchocy
292	14.6	69.5	224	3	AAI18555	Aai18555 Human sec	c 365	14.6	69.5	1894	10	AAV60617	AAV60617 Synchocy
293	14.6	69.5	290	5	AAV93748	Av93748 DNA encod	c 366	14.6	69.5	1914	5	AAV33590	AAV33590 DNA encod
294	14.6	69.5	290	5	AAV93748	Av93748 DNA encod	c 367	14.6	69.5	1930	13	ADR23159	ADR23159 Smooth pi
295	14.6	69.5	390	13	ADT51485	Adt51485 E. coli r	c 368	14.6	69.5	2000	8	ADA72451	ADA72451 Rice gene
296	14.6	69.5	413	8	ABX39949	Abx39949 Bovine ES	c 369	14.6	69.5	2000	11	ACL36182	ACL36182 Rice stre
297	14.6	69.5	466	3	AAV74862	Av74862 Human ORF	c 370	14.6	69.5	2000	11	ACL37476	ACL37476 Rice stre
298	14.6	69.5	514	6	ABZ08444	Abz08444 Human leu	c 371	14.6	69.5	2000	12	ADJ41043	ADJ41043 Plant CDN
299	14.6	69.5	516	8	ACA30640	AcA30640 Prokaryot	c 372	14.6	69.5	2019	13	ADV34926	ADV34926 Rat CDNA
300	14.6	69.5	539	8	ABZ53309	Abz53309 Aspergill	c 373	14.6	69.5	2025	5	ABX09882	ABX09882 N. lactam
301	14.6	69.5	597	4	AAH84601	Aah84601 E. coli g	c 374	14.6	69.5	2133	8	AB198036	AB198036 TSHR-Ga-a
302	14.6	69.5	597	8	ACA18761	AcA18761 Prokaryot	c 375	14.6	69.5	2133	8	ACC70137	ACC70137 Nucleotid
303	14.6	69.5	610	6	ABT09511	Abt09511 Phase-1 R	c 376	14.6	69.5	2133	13	ADU4237	ADU4237 DNA encod
304	14.6	69.5	610	12	ADH22827	Adh22827 Partial D	c 377	14.6	69.5	2148	8	ABX09883	ABX09883 N. mening
305	14.6	69.5	619	5	AAV93756	Av93756 DNA encod	c 378	14.6	69.5	2234	5	AAV87132	AAV87132 DNA encod
306	14.6	69.5	674	6	ABN75366	Abn75366 Human ORF	c 379	14.6	69.5	2240	13	ADT05252	ADT05252 Haemophil
307	14.6	69.5	675	10	ADC08877	Adc08877 Corn DNA	c 380	14.6	69.5	2379	10	ADD45509	ADD45509 Human gen
308	14.6	69.5	678	13	ADR88787	Adr88787 Nucleotid	c 381	14.6	69.5	2414	12	ADF70702	ADF70702 Acetic-ac
309	14.6	69.5	697	5	AAV90474	Av90474 DNA encod	c 382	14.6	69.5	2432	2	AAQ81748	AAQ81748 Mouse syn
310	14.6	69.5	700	3	AAV12795	Av12795 Aspergill	c 383	14.6	69.5	2607	5	AAV87125	AAV87125 DNA encod
311	14.6	69.5	700	13	ADU56836	Adu56836 Aspergill	c 384	14.6	69.5	2668	5	AAV87134	AAV87134 DNA encod

385	14.6	69.5	2969	2	AAx84349	AAx84349 Stealth v	c 458	14.4	68.6	6149	6	ABN90315	ABN90315 Human liv
c 386	14.6	69.5	3054	12	ADJ75927	Adj75927 Marker ge	c 459	14.4	68.6	6149	6	ABN90316	ABN90316 Human liv
c 387	14.6	69.5	3054	14	ADJ26107	Adj26107 Novel cel	c 460	14.4	68.6	6149	11	ADJ15229	Adj15229 Human liv
c 388	14.6	69.5	3072	4	ABL27414	AbL27414 Drosophil	c 461	14.4	68.6	6149	11	ADJ15228	Adj15228 Human liv
389	14.6	69.5	3078	5	AAx93759	Aax93759 DNA encod	c 462	14.4	68.6	13531	4	ABL07252	AbL07252 Drosophil
390	14.6	69.5	3132	3	AAx79522	Aax79522 Rat p38a1	c 463	14.4	68.6	20268	4	AAK90183	Aak90183 Human dig
391	14.6	69.5	3132	8	ABX78121	Abx78121 Rat p38-a	c 464	14.4	68.6	20268	4	AAI57636	Aai57636 Human col
392	14.6	69.5	3132	10	ADB59857	AdB59857 Toxicity-	c 465	14.4	68.6	20268	6	ABS99813	AbS99813 Genomic D
393	14.6	69.5	3132	10	ADB53174	AdB53174 Primary r	c 466	14.4	68.6	20268	10	ADB92966	AdB92966 Human col
394	14.6	69.5	3132	10	ABT42156	AbT42156 Toxicity	c 467	14.4	68.6	46852	8	ABQ76676	AbQ76676 Androgen
395	14.6	69.5	3132	11	ADM34257	AdM34257 Rat p38a1	c 468	14.4	68.6	149158	12	ADP74211	AdP74211 Equine he
396	14.6	69.5	3132	13	ADS97163	AdS97163 Rat p38 M	c 469	14.4	68.6	149261	12	ADP74212	AdP74212 Equine he
397	14.6	69.5	3231	13	ADT46594	AdT46594 Bacterial	c 470	14.4	68.6	150071	12	ADP74216	AdP74216 Equine he
398	14.6	69.5	3243	5	AAx87325	Aax87325 DNA encod	c 471	14.4	68.6	150223	12	ADP74201	AdP74201 Equine he
399	14.6	69.5	3243	10	ADFS9954	AdF9954 Human con	c 472	14.4	68.6	218336	8	ABQ76678	AbQ76678 Androgen
c 400	14.6	69.5	3471	14	ACFL1922	AcFL1922 M. xanthu	c 473	14.2	67.6	28	3	AAZ54648	Aaz54648 Neisseria
401	14.6	69.5	3629	4	ABL29996	AbL29996 Drosophil	c 474	14.2	67.6	60	13	ADS53160	AdS53160 Eucalyptu
402	14.6	69.5	3795	5	AAx87129	Aax87129 Drosophil	c 475	14.2	67.6	258	2	AAT67771	Aat67771 H. pylori
403	14.6	69.5	3795	12	ADM87462	AdM87462 Human EST	c 476	14.2	67.6	258	2	AAT77451	Aat77451 H. pylori
404	14.6	69.5	3797	5	AAx87329	Aax87329 Drosophil	c 477	14.2	67.6	391	4	AAI19551	Aai19551 Human bre
405	14.6	69.5	3887	5	ABL25688	AbL25688 Drosophil	c 478	14.2	67.6	417	4	AAI81838	Aai81838 Human pol
c 406	14.6	69.5	3916	4	ABLI19890	AbLI19890 Drosophil	c 479	14.2	67.6	446	14	ACL61636	AcL61636 Human col
408	14.6	69.5	5157	12	ADI26350	AdI26350 F. gramin	c 480	14.2	67.6	450	9	ACH39195	Ach39195 Human foe
409	14.6	69.5	5888	12	ADI26349	AdI26349 F. gramin	c 481	14.2	67.6	455	8	ABZ54299	AbZ54299 Aspergill
410	14.6	69.5	6219	12	ADI26353	AdI26353 F. gramin	c 482	14.2	67.6	460	4	AAH34438	Aah34438 Human col
c 411	14.6	69.5	6608	12	ADI26352	AdI26352 F. gramin	c 483	14.2	67.6	488	3	AAF08801	Aaf08801 Fusarium
c 412	14.6	69.5	7119	13	ADR84468	AdR84468 Aspergill	c 484	14.2	67.6	488	13	ADU52842	AdU52842 Fusarium
c 413	14.6	69.5	7186	14	ACL64416	AcL64416 M. xanthu	c 485	14.2	67.6	498	9	ACH32773	Ach32773 Human end
c 414	14.6	69.5	7339	12	ADI26351	AdI26351 F. gramin	c 487	14.2	67.6	501	9	ACH32773	ACH32773 Human end
415	14.6	69.5	9711	4	AAx23486	Aax23486 Infectiou	c 488	14.2	67.6	527	2	AAQ31995	Aaq31995 5' flanki
416	14.6	69.5	9711	4	AAx86937	Aax86937 Nucleotid	c 489	14.2	67.6	555	13	ADX63822	Adx63822 Plant ful
417	14.6	69.5	9711	5	AAx86644	Aax86644 Nucleotid	c 490	14.2	67.6	611	12	ADN13703	Adn13703 Human pro
c 418	14.6	69.5	23732	4	ABL30302	AbL30302 Drosophil	c 491	14.2	67.6	663	8	ACA39248	AcA39248 Prokaryot
c 419	14.6	69.5	26698	2	AAT08126	Aat08126 Mouse syn	c 492	14.2	67.6	674	10	ACF67270	AcF67270 Phototrab
c 420	14.6	69.5	26700	2	AAQ67902	Aaq67902 Syndecan	c 493	14.2	67.6	678	9	ADA28794	Ada28794 DNA encod
c 421	14.6	69.5	26700	2	AAV15946	Aav15946 Mouse syn	c 494	14.2	67.6	681	11	ACN89271	AcN89271 Breast ca
c 422	14.6	69.5	26700	2	AAV81283	Aav81283 Mouse syn	c 495	14.2	67.6	681	12	ADL04181	AdL04181 DNA encod
c 423	14.6	69.5	26700	8	ACA60750	AcA60750 Mouse cel	c 496	14.2	67.6	687	6	ABX66497	Abx66497 Helicobac
c 424	14.6	69.5	28275	3	AAa81501	AAa81501 N. mening	c 497	14.2	67.6	741	6	ABK74143	AbK74143 Bacillus
c 425	14.6	69.5	72750	3	AAa81468	AAa81468 N. mening	c 498	14.2	67.6	764	4	AAI24651	Aai24651 Human bre
426	14.6	69.5	110000	2	AAZ01425	Aaz01425 Continuation (6 of	c 499	14.2	67.6	780	10	ADB67956	AdB67956 Human lun
427	14.6	69.5	110000	2	AAx91990	Aax91990 Continuation (8 of	c 500	14.2	67.6	780	12	ADN13730	Adn13730 Human pro
428	14.6	69.5	110000	2	AAx81490	Aax81490 Continuation (3 of							
429	14.6	69.5	110000	3	AAa81489	AAa81489 N. mening							
c 430	14.6	69.5	125534	11	ACN44966	AcN44966 Human gen							
c 431	14.6	69.5	138251	13	ADQ80324	AdQ80324 Human PAC							
c 432	14.6	69.5	138337	13	ABD33163	AbD33163 Human can							
c 433	14.6	69.5	146547	8	ABZ80817	AbZ80817 Human pho							
c 434	14.6	69.5	219352	13	ABD33098	AbD33098 Murine ca							
c 435	14.6	69.5	235962	14	ADZ112926	AdZ112926 Murine ca							
436	14.6	69.5	264965	12	ADN16203	AdN16203 Human sul							
437	14.6	69.5	268685	6	ABS56563	AbS56563 Human SUL							
438	14.6	69.5	349980	3	AAx21610	Aax21610 Neisseria							
439	14.6	69.5	349980	3	AAx21611	Aax21611 Neisseria							
440	14.6	69.5	349980	3	AAx21544	Aax21544 Neisseria							
441	14.4	68.6	20	10	ABZ25482	AbZ25482 Rice acet							
c 442	14.4	68.6	300	2	AAZ12565	Aaz12565 Human gen							
c 443	14.4	68.6	597	13	ADR64579	AdR64579 Cotton cD							
c 444	14.4	68.6	751	2	AAZ15561	Aaz15561 Human gen							
445	14.4	68.6	1596	14	ADM38750	AdM38750 Fatty aci							
c 446	14.4	68.6	1723	14	ABE66287	AbE66287 Rice geno							
447	14.4	68.6	1745	6	ABK27912	AbK27912 Corn male							
c 448	14.4	68.6	2000	8	ADA72667	Ada72667 Rice gene							
449	14.4	68.6	2022	13	ADT0197	AdT0197 Plant cDN							
c 450	14.4	68.6	2133	13	ADU07863	AdU07863 DNA seque							
451	14.4	68.6	2776	4	ABL17073	AbL17073 Drosophil							
c 452	14.4	68.6	3584	4	ABL07253	AbL07253 Drosophil							
c 453	14.4	68.6	4776	4	ABL17072	AbL17072 Drosophil							
c 454	14.4	68.6	6149	4	AAK90925	Aak90925 Human dig							
c 455	14.4	68.6	6149	4	AAK90926	Aak90926 Human dig							
c 456	14.4	68.6	6149	5	AAa31961	AAa31961 Human liv							
c 457	14.4	68.6	6149	5	AAa31960	AAa31960 Human liv							

## ALIGNMENTS

## RESULT 1

ADFS0207	ADFS0207 standard; DNA; 1524 BP.
ID	ADFS0207
XX	ADFS0207
AC	ADFS0207
XX	ADFS0207
DT	12-FEB-2004 (first entry)
XX	Wheat Teal AHAS ALS3 ORF, SEQ ID 7.
DE	Wheat; plant; herbicide resistance; imidazolinone; IMI; mutant;
XX	acetohydroxyacid synthase; AHAS; weed control; ds.
XX	Triticum aestivum.
OS	Wheat; plant; herbicide resistance; imidazolinone; IMI; mutant;
XX	acetohydroxyacid synthase; AHAS; weed control; ds.
FN	WO2003014357-A1.
XX	20-FEB-2003.
PD	10-JUL-2002; 2002MO-CA001051.
XX	09-AUG-2001; 2001US-0311282P.
PR	(UUSA-) UNIV SASKATCHEWAN.
XX	
XX	

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 2594.31 Seconds  
(without alignments)  
378.725 Million cell updates/sec

Title: US-10-805-973-1

Perfect score: 21  
Sequence: 1 ccgcgcgaatgctatccag 21

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 41078325 seqs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

EST.\*  
1: gb\_est1.\*  
2: gb\_est2.\*  
3: gb\_est3.\*  
4: gb\_hic.\*  
5: gb\_est4.\*  
6: gb\_est5.\*  
7: gb\_est6.\*  
8: gb\_est7.\*  
9: gb\_ges1.\*  
10: gb\_ges2.\*  
11: gb\_ges3.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	21	100.0	336	2	BE216970 EST0513 T
2	21	100.0	342	2	BE406178 WHE0405 e
3	21	100.0	452	3	BZ211019 BJ211019
4	21	100.0	479	1	AL818714 AL818714
5	21	100.0	514	2	BG606342 WHE2959 G
6	21	100.0	542	2	BE402272 CSB006C02
7	21	100.0	542	5	BQ607881 BRY 3780
8	21	100.0	544	2	BE637311 WHE1817-1
9	21	100.0	583	3	BE751798 TA0115d1
10	21	100.0	635	7	CV064973 WNE117f3
11	21	100.0	642	3	BZ290340 BJ290340
12	21	100.0	657	5	BQ839048 WHE3590 G
13	21	100.0	680	6	CD923248 G750-107G
14	21	100.0	697	1	AM447953 BRY 1115
15	21	100.0	697	5	BQ605618 BRY 1115
16	21	100.0	737	5	BQ099465 WHE3307 F
17	21	100.0	860	8	CV763823 FGAS05820
18	21	100.0	877	7	CK164419 FGAS04832
19	21	100.0	1121	7	CK166070 FGAS05012
20	21	100.0	1143	7	CK166817 FGAS05104
21	21	100.0	1149	7	CK167517 FGAS05189
C 22	21	100.0	1198	7	CK168204 FGAS05270

23	20	95.2	382	1	AL815430
24	20	95.2	437	2	BG262730
C 25	19.4	92.4	394	3	BP749309
C 26	19.4	92.4	394	3	BP749503
27	19.4	92.4	582	10	CZ100490
28	19.4	92.4	692	10	CZ146518
29	19.4	92.4	707	10	CZ134481
30	19.4	92.4	897	10	CZ134246
C 31	19.4	92.4	1160	7	CK167307
32	17.8	84.8	342	10	CL579765
33	17.8	84.8	387	10	CL745747
34	17.8	84.8	394	5	CA002221
35	17.8	84.8	448	5	BU974149
36	17.8	84.8	458	1	AU090161
37	17.8	84.8	463	1	AU090120
38	17.8	84.8	482	2	BE194893
39	17.8	84.8	580	2	BP258592
40	17.8	84.8	583	1	AV933257
41	17.8	84.8	599	3	BI946606
42	17.8	84.8	625	1	AV933951
43	17.8	84.8	648	6	CB883149
44	17.8	84.8	714	10	CL838248
45	17.8	84.8	727	10	CL748539
46	17.8	84.8	813	10	AG872950
C 47	17.8	84.8	820	10	CZ694312
48	17.8	84.8	879	6	CB626705
C 49	17.8	84.8	1147	7	CK166638
C 50	17.8	84.8	1149	7	CK167615
C 51	17.8	84.8	1935	10	CL967368
52	17.8	82.9	890	11	CNS06YBX
C 53	17.4	82.9	285	2	BG942465
C 54	16.8	80.0	285	2	BG942465
C 55	16.8	80.0	450	10	CZ063538
56	16.8	80.0	576	7	CO144864
57	16.8	80.0	693	3	BJ576529
58	16.8	80.0	719	3	BU568061
C 59	16.8	80.0	775	7	CK354936
60	16.8	80.0	1100	6	CA492544
C 61	16.4	78.1	606	3	BP953985
C 62	16.4	78.1	613	2	BE202961
C 63	16.4	78.1	946	2	BF697997
64	16.4	78.1	1008	9	CC891497
C 65	16.2	77.1	116	2	BG995858
C 66	16.2	77.1	127	9	BH630438
67	16.2	77.1	130	7	CN115578
68	16.2	77.1	186	1	AW378699
69	16.2	77.1	201	2	BE951735
70	16.2	77.1	215	3	BM066807
C 71	16.2	77.1	247	2	BG97613
C 72	16.2	77.1	292	1	AL921498
C 73	16.2	77.1	313	7	CN086858
74	16.2	77.1	319	7	CN116061
75	16.2	77.1	345	7	CK085295
76	16.2	77.1	355	5	EX725082
77	16.2	77.1	384	1	AL594975
78	16.2	77.1	388	7	CO906971
C 79	16.2	77.1	401	10	CL740780
C 80	16.2	77.1	411	6	CF041801
81	16.2	77.1	424	7	CN116743
82	16.2	77.1	434	7	CN086859
C 83	16.2	77.1	442	7	CK048867
84	16.2	77.1	442	7	CN117606
85	16.2	77.1	452	2	BG158251
86	16.2	77.1	461	1	AW932273
87	16.2	77.1	469	8	CK774140
88	16.2	77.1	470	3	BP989787
89	16.2	77.1	477	1	AW441537
90	16.2	77.1	479	3	BP901388
91	16.2	77.1	481	9	AQ227033
92	16.2	77.1	482	3	BP987059
C 93	16.2	77.1	482	4	AY671039
C 94	16.2	77.1	491	8	DR406527
95	16.2	77.1	493	7	CN116727

AL815430 AL815430  
BG262730 WHE0405 E  
BP749309 BP749309  
BP749503 BP749503  
CZ100490 OM\_BA010  
CZ146518 OA\_BBA004  
CZ134481 OA\_BBA002  
CZ134246 OA\_BBA002  
CK167307 FGAS05163  
CL579765 OB\_BA003  
CL745747 OR\_BBA008  
CA002221 HS06N21r  
BU974149 HB27A17r  
AU090161 AU090161  
AU090120 AU090120  
BE194893 HVSMEH008  
BP258592 HVSNEF001  
AV933257 AV932575  
BI946606 HVSME1000  
CL720070 OR\_BBA004  
AV933951 AV933951  
CB883149 HQ01F18w  
CL838248 OR\_CB8006  
CL748539 OR\_BBA011  
AG872950 Oryza sat  
CZ694312 OC\_BA000  
CB626705 OS17EB01C  
CK166638 FGAS05080  
CK167615 FGAS05201  
CL967368 OBIFCC039  
AL420835 T3 end of  
BG942465 ax25e08.x  
CZ063538 OM\_BA006  
CO144864 EST81917  
BU568061 BJ576529  
CK354936 AGENCOURT  
CA492544 AGENCOURT  
BP953985 BP953985  
BE202961 EST410092  
BF697997 602130092  
CC891497 ZMMBHC051  
BG995858 PMO-HT091  
BH630438 1007088E0  
CN115578 EC2CAA43A  
AW378699 PM2-HT022  
BE951735 UI-M-CCO-  
BM066807 KS07018E0  
BG97613 PMO-HT091  
AL921498 AL921498  
CN086858 EC2BBA27D  
CN116061 EC2CAA43D  
CK085295 OSMN01005  
EX725082 BX725082  
AL594975 AL594975  
CO906971 BJ0201180  
CL740780 OR\_BBA007  
CF041801 QJ30b11  
CN116743 EC2CAA45A  
CN086859 EC2BBA27D  
CK048867 45749r81C  
CN117606 EC2CAA4AE  
BG158251 EM1\_10\_D0  
AW932273 EST358116  
CK774140 UI-EH-HG1  
BP989787 BP989787  
AW441537 EST310933  
BP901388 BP901388  
AQ227033 HS\_2013\_A  
BP987059 BP987059  
AY671039 Homo sapi  
DR406527 mhm86c04  
CN116727 EC2CAA45A

c 96	16.2	77.1	496	7	CN011516	CN011516 WHE3885 B	169	77.1	659	5	BX704965	BX704965 BX704965
c 97	16.2	77.1	505	7	CN104945	CN104945 EC2CAA26D	170	77.1	659	6	CA114581	CA114581 SCRLB105
c 98	16.2	77.1	505	9	BH775217	BH775217 FZMB011f0	c 171	77.1	660	9	BH214891	BH214891 1006012C0
c 99	16.2	77.1	508	9	AQ800407	AQ800407 HS_5305_A	172	77.1	661	7	CN111903	CN111903 EC2CAA37D
c 100	16.2	77.1	509	1	AU162001	AU162001 AU162001	c 173	77.1	666	7	CN102633	CN102633 EC2CAA20A
c 101	16.2	77.1	509	7	CK043798	CK043798 48552r61c	c 174	77.1	666	9	BH572769	BH572769 BOGM64TR
c 102	16.2	77.1	512	5	BUL197733	BUL197733 946163G06	175	77.1	667	5	BQ527451	BQ527451 NISC no22
c 103	16.2	77.1	516	7	CN112343	CN112343 EC2CAA38C	176	77.1	667	7	CN096915	CN096915 EC2CAA12A
c 104	16.2	77.1	516	9	AQ205331	AQ205331 HS_3235_B	c 177	77.1	668	9	CC891353	CC891353 ZM8B8C051
c 105	16.2	77.1	516	9	BH226581	BH226581 1006133B0	c 178	77.1	670	8	DR828296	DR828296 ZM_BFB007
c 106	16.2	77.1	519	2	BG356136	BG356136 EM1_21_G0	179	77.1	672	5	BQ035155	BQ035155 OP_BA000
c 107	16.2	77.1	523	1	AW41647	AW41647 EST311043	180	77.1	677	10	CW503515	CW503515 OP_BA000
c 108	16.2	77.1	523	8	DN559060	DN559060 B11-E06-T	c 181	77.1	678	9	BH561152	BH561152 BOHFH52TR
c 109	16.2	77.1	528	1	AW934615	AW934615 EST353507	182	77.1	679	7	CN098464	CN098464 EC2CAA14C
c 110	16.2	77.1	532	1	AL965572	AL965572 AL965572	183	77.1	682	5	BW236625	BW236625 EC2CAA14C
c 111	16.2	77.1	532	8	DN559058	DN559058 ME19-A01-	184	77.1	682	5	CN094980	CN094980 EC2BAA1BG
c 112	16.2	77.1	532	8	DN559058	DN559058 B11-C01-T	185	77.1	683	8	CD359587	CD359587 JGI_XZT75
c 113	16.2	77.1	533	1	AW441610	AW441610 EST311006	186	77.1	684	6	CD448670	CD448670 EK07D2305
c 114	16.2	77.1	534	7	B58708	B58708 CIT-HSP-201	187	77.1	685	7	CN098100	CN098100 EC2CAA14A
c 115	16.2	77.1	543	7	CN106299	CN106299 EC2CAA29B	188	77.1	685	7	CN112704	CN112704 EC2CAA39A
c 116	16.2	77.1	544	8	DR785146	DR785146 ZM_BFB000	189	77.1	691	6	CD449038	CD449038 EK07D2312
c 117	16.2	77.1	548	9	AZ182156	AZ182156 SP_0188_B	190	77.1	694	5	BW309214	BW309214 BW309214
c 118	16.2	77.1	551	3	BK067066	BK067066 KS07021D0	191	77.1	696	5	BH969490	BH969490 odj12C11
c 119	16.2	77.1	551	8	CK771595	CK771595 UI-EH-HG1	c 192	77.1	696	9	BH969490	BH969490 CR428039
c 120	16.2	77.1	554	2	BF097149	BF097149 EST361060	193	77.1	697	7	CR428039	CR428039
c 121	16.2	77.1	562	7	C0525700	C0525700 3530_1_17	194	77.1	698	7	CN117304	CN117304 EC2CAA37D
c 122	16.2	77.1	570	2	BG887536	BG887536 EST513587	195	77.1	701	7	CN111923	CN111923 EC2CAA37D
c 123	16.2	77.1	571	7	CN096168	CN096168 EC2CAA11C	196	77.1	706	6	CA095528	CA095528 SCCCL507
c 124	16.2	77.1	575	3	BI406075	BI406075 154B02_Ma	197	77.1	708	2	BG594006	BG594006 EST492684
c 125	16.2	77.1	579	7	C0535004	C0535004 3530_1_23	198	77.1	709	7	CN118819	CN118819 EC2CAA9AH
c 126	16.2	77.1	580	7	CN074906	CN074906 EC0CBA005	c 199	77.1	710	9	CC722285	CC722285 OG0BB62TH
c 127	16.2	77.1	580	7	CN091280	CN091280 EC2BBA34D	c 200	77.1	716	6	CB330681	CB330681 SP6ST637b
c 128	16.2	77.1	581	5	BW276094	BW276094 BW276094	c 201	77.1	722	3	BI405730	BI405730 115P09_Ma
c 129	16.2	77.1	584	6	CF084441	CF084441 QHL2L22_Y	c 202	77.1	722	9	BZ377332	BZ377332 i88d05_9
c 130	16.2	77.1	585	6	CA081925	CA081925 SCAGAM202	c 203	77.1	728	7	CN106217	CN106217 EC2CAA29A
c 131	16.2	77.1	585	7	CN094558	CN094558 EC2BBA9DH	204	77.1	731	2	BG599329	BG599329 EST504229
c 132	16.2	77.1	588	1	AW224881	AW224881 68704G04	205	77.1	739	7	CR449116	CR449116
c 133	16.2	77.1	588	5	BQ524537	BQ524537 NISC no05	c 206	77.1	735	8	DR810906	DR810906 ZM_BFB003
c 134	16.2	77.1	590	1	AI773398	AI773398 EST254398	c 207	77.1	737	2	BF460203	BF460203 069707_Ma
c 135	16.2	77.1	591	1	CN112344	CN112344 EC2CAA38C	208	77.1	737	6	CD445176	CD445176 EL01N0448
c 136	16.2	77.1	604	5	BW350227	BW350227 BW350227	209	77.1	747	6	CF782043	CF782043 AGENCOURT
c 137	16.2	77.1	607	7	CR430034	CR430034 CR430034	c 210	77.1	747	8	DR785489	DR785489 ZM_BFB000
c 138	16.2	77.1	608	7	CR430625	CR430625 CR430625	c 211	77.1	747	10	AG184029	AG184029 Pan_trog1
c 139	16.2	77.1	613	6	CA831647	CA831647 1117022A0	212	77.1	750	3	BI423012	BI423012 EST533678
c 140	16.2	77.1	614	8	CR858853	CR858853 SJF2AJ508	213	77.1	751	8	CA666318	CA666318 UCRCP01_0
c 141	16.2	77.1	615	7	CN100443	CN100443 EC2CAA17D	c 214	77.1	752	8	C0520670	C0520670 3530_1_13
c 142	16.2	77.1	618	3	BW065236	BW065236 KS07001D0	c 215	77.1	752	8	DR780734	DR780734 BAAC-PMP1
c 143	16.2	77.1	620	9	BA487937	BA487937 BOHFS75TR	c 216	77.1	753	7	CR449770	CR449770 CR449770
c 144	16.2	77.1	621	6	CA081570	CA081570 SCAGAM201	217	77.1	756	8	CR853901	CR853901 JGI_CAAAL9
c 145	16.2	77.1	621	7	CN087914	CN087914 EC2BBA29B	218	77.1	757	7	CN102232	CN102232 EC2CAA1BG
c 146	16.2	77.1	622	10	CG711115	CG711115 1119020B0	219	77.1	757	8	CG927172	CG927172 JGI_CAAAN1
c 147	16.2	77.1	623	7	CN077085	CN077085 EC2BBA12D	c 220	77.1	758	8	BZ725779	BZ725779 OGF8550TM
c 148	16.2	77.1	628	7	CN101313	CN101313 EC2CAA19A	221	77.1	759	9	DR850042	DR850042 JGI_CABE1
c 149	16.2	77.1	630	6	CA240473	CA240473 SCBFLA406	c 222	77.1	768	8	DR796177	DR796177 ZM_BFB001
c 150	16.2	77.1	631	7	CN081758	CN081758 EC2BBA20A	223	77.1	769	8	CO461387	CO461387 MZCCS1502
c 151	16.2	77.1	631	7	CR577488	CR577488 CR577488	224	77.1	771	7	CO461387	CO461387 AGENCOURT
c 152	16.2	77.1	633	2	BE435274	BE435274 EST406352	225	77.1	774	6	CF152158	CF152158 AGENCOURT
c 153	16.2	77.1	635	1	AL639398	AL639398 CR417408	226	77.1	776	6	CF374701	CF374701 AGENCOURT
c 154	16.2	77.1	635	1	AL639398	AL639398 AL639398	227	77.1	777	2	BG350970	BG350970 099806_Ma
c 155	16.2	77.1	635	7	CN109220	CN109220 EC2CAA33B	228	77.1	778	9	BZ725774	BZ725774 OGF8550TC
c 156	16.2	77.1	642	10	CG380570	CG380570 OGWIM56TV	c 229	77.1	779	8	CR933267	CR933267 JGI_CAAO2
c 157	16.2	77.1	643	6	CA133083	CA133083 SCEQRT103	230	77.1	782	3	BI405937	BI405937 149C07_Ma
c 158	16.2	77.1	645	10	CE568590	CE568590 t19r-988-	231	77.1	784	8	CR337165	CR337165 JGI_XZT19
c 159	16.2	77.1	646	5	BW311198	BW311198 BW311198	232	77.1	787	5	EX727346	EX727346 BX727346
c 160	16.2	77.1	649	6	CA071692	CA071692 SCBGA108	233	77.1	787	7	CN102332	CN102332 EC2CAA1CD
c 161	16.2	77.1	650	9	AZ169335	AZ169335 SP_0113_B	234	77.1	791	7	CN093523	CN093523 EC2BBA8BC
c 162	16.2	77.1	653	1	AI775804	AI775804 EST256904	235	77.1	796	8	CR881672	CR881672 JGI_CAAAL2
c 163	16.2	77.1	656	7	CN073890	CN073890 EC0CBA004	236	77.1	800	8	DR849849	DR849849 JGI_CABE1
c 164	16.2	77.1	656	7	CN090279	CN090279 EC2BBA33A	237	77.1	801	9	CG64967	CG64967 OGJG46TV
c 165	16.2	77.1	657	6	CD977096	CD977096 QAF26a12	238	77.1	802	8	CR892825	CR892825 JGI_CAA4
c 166	16.2	77.1	657	7	CN091184	CN091184 EC2BBA34C	239	77.1	808	8	CR399342	CR399342 JGI_XZT37
c 167	16.2	77.1	657	8	DN206827	DN206827 MEST839_G	240	77.1	810	8	CR330226	CR330226 JGI_XZT16
c 168	16.2	77.1	658	6	CD977749	CD977749 QAF33h0B	c 241	77.1	811	8	DR796025	DR796025 ZM_BFB001



C 242	16.2	77.1	813	3	B1413814	BI413814	6029991847	C 315	16	76.2	514	9	CC059725	CC059725	i126h07.b
C 243	16.2	77.1	813	10	CW834218	CW834218	OP_Ba009	C 316	16	76.2	838	11	CR113277	CR113277	Reverse s
C 244	16.2	77.1	815	8	DN037311	DN037311	JGI_CAA01	C 317	16	76.2	4186	4	AK049079	AK049079	Mus muscu
C 245	16.2	77.1	816	6	CB683493	CB683493	OSJNTEf11P	C 318	15.8	75.2	200	10	CG715003	CG715003	1119039E0
C 246	16.2	77.1	819	8	DR874341	DR874341	JGI_CABH1	C 319	15.8	75.2	235	1	AI521032	AI521032	7070a01.x
C 247	16.2	77.1	820	7	DR830101	DR830101	2M_EPB007	C 320	15.8	75.2	269	7	AK074335	AK074335	76153rBic
C 248	16.2	77.1	824	7	CV498206	CV498206	62469.1 M	C 321	15.8	75.2	283	1	BB365726	BB365726	BB365726
C 249	16.2	77.1	825	7	CN077084	CN077084	EC2BBA12D	C 322	15.8	75.2	337	9	BH411282	BH411282	1007022C0
C 250	16.2	77.1	829	8	CA044789	CA044789	JGI_X2T36	C 323	15.8	75.2	352	10	CG707816	CG707816	1119003H1
C 251	16.2	77.1	830	2	BG681341	BG681341	602627191	C 324	15.8	75.2	370	9	B33760	B33760	HS-1023-A2-
C 252	16.2	77.1	830	6	CA037116	CA077116	SCOGAM104	C 325	15.8	75.2	372	5	BX563420	BX563420	BX563420
C 253	16.2	77.1	830	6	CD433762	CD433762	EL0N0314	C 326	15.8	75.2	375	10	BX214641	BX214641	Danio rer
C 254	16.2	77.1	830	11	CT048578	CT018578	KRHL127B0	C 327	15.8	75.2	380	5	BX569348	BX569348	BX569348
C 255	16.2	77.1	832	8	DR851048	DR851048	JGI_CABE1	C 328	15.8	75.2	407	1	AV750469	AV750469	AV750469
C 256	16.2	77.1	834	10	CG233709	CG233709	OGXCN39TH	C 329	15.8	75.2	414	9	BH630104	BH630104	1007086G1
C 257	16.2	77.1	835	7	CR412589	CR412589	CR412589	C 330	15.8	75.2	426	6	CA744856	CA744856	wr11s.pk0
C 258	16.2	77.1	836	5	BR726302	BR726302	BR726302	C 331	15.8	75.2	430	6	CP448997	CP448997	ES7685342
C 259	16.2	77.1	837	8	CK332753	CK332753	JGI_X2T68	C 332	15.8	75.2	438	9	BH630436	BH630436	1007088B0
C 260	16.2	77.1	837	8	DN010517	DN010517	JGI_CAAQ9	C 333	15.8	75.2	440	2	BF416445	BF416445	UI-R-CA0-
C 261	16.2	77.1	838	8	CK406243	CK406243	JGI_X2T61	C 334	15.8	75.2	444	8	DR590934	DR590934	WS00829.B
C 262	16.2	77.1	841	7	CK279268	CK279268	EST725346	C 335	15.8	75.2	452	3	BQ171146	BQ171146	WHE2336.D
C 263	16.2	77.1	842	7	CR432291	CR432291	CR432291	C 336	15.8	75.2	463	5	BQ487303	BQ487303	WHE0821-0
C 264	16.2	77.1	845	8	CK394268	CK394268	JGI_X2T26	C 337	15.8	75.2	468	7	CV165071	CV165071	rsmx1.00
C 265	16.2	77.1	846	8	DN005698	DN005698	JGI_CAAQ5	C 338	15.8	75.2	470	5	BU407846	BU407846	603482517
C 266	16.2	77.1	847	8	CR999181	CR999181	JGI_CAAQ2	C 339	15.8	75.2	497	6	CA744384	CA744384	wr11s.pk0
C 267	16.2	77.1	848	8	CK344654	CK344654	JGI_X2T23	C 340	15.8	75.2	506	7	CO232020	CO232020	WS0055.B2
C 268	16.2	77.1	850	7	CR580620	CR580620	CR580620	C 341	15.8	75.2	507	5	CO232928	CO232928	WS0055.B2
C 269	16.2	77.1	852	8	CK851994	CK851994	JGI_CAA18	C 342	15.8	75.2	511	5	BX567384	BX567384	BX567384
C 270	16.2	77.1	853	7	CK463798	CK463798	MZCCL1503	C 343	15.8	75.2	521	9	AQ433604	AQ433604	HS-5069.A
C 271	16.2	77.1	855	7	CK438763	CK438763	CK438763	C 344	15.8	75.2	524	7	CV168771	CV168771	rsmx1.00
C 272	16.2	77.1	858	7	CK437716	CK437716	CK437716	C 345	15.8	75.2	532	9	AQ461138	AQ461138	HS-5181.B
C 273	16.2	77.1	858	8	CK344239	CK344239	JGI_X2T23	C 346	15.8	75.2	537	6	CD202009	CD202009	MS1-0130U
C 274	16.2	77.1	860	8	DN980226	DN980226	SV6_23G12	C 347	15.8	75.2	541	6	CA744297	CA744297	wr11s.pk0
C 275	16.2	77.1	861	8	CK375874	CK375874	JGI_X2T59	C 348	15.8	75.2	541	6	CA744338	CA744338	wr11s.pk0
C 276	16.2	77.1	864	5	BX711660	BX711660	BX711660	C 349	15.8	75.2	554	2	BES86032	BES86032	Esc#7p8p6
C 277	16.2	77.1	864	8	CK667530	CK667530	UCKRCP01.0	C 350	15.8	75.2	556	5	BU291153	BU291153	604164627
C 278	16.2	77.1	865	5	BX743206	BX743206	BX743206	C 351	15.8	75.2	564	7	CV166883	CV166883	rsmx1.00
C 279	16.2	77.1	865	8	CK394468	CK394468	JGI_X2T26	C 352	15.8	75.2	577	1	AL803341	AL803341	AL803341
C 280	16.2	77.1	866	5	BX721429	BX721429	BX721429	C 353	15.8	75.2	581	5	BX562127	BX562127	BS562127
C 281	16.2	77.1	869	7	CK408143	CK408143	CK408143	C 354	15.8	75.2	589	7	CN234487	CN234487	RJ8082D03
C 282	16.2	77.1	870	8	DN007580	DN007580	JGI_CAAQ7	C 355	15.8	75.2	596	1	AU083578	AU083578	AU083578
C 283	16.2	77.1	872	7	CN093104	CN093104	EC2EALCD	C 356	15.8	75.2	597	7	CO158357	CO158357	FLD1.6.H0
C 284	16.2	77.1	874	8	CK996832	CK996832	JGI_CAAQ5	C 357	15.8	75.2	610	1	AV913147	AV913147	AV913147
C 285	16.2	77.1	874	8	CK999807	CK999807	JGI_CAAQ2	C 358	15.8	75.2	616	1	AL673773	AL673773	AL673773
C 286	16.2	77.1	874	8	DN007581	DN007581	JGI_CAAQ7	C 359	15.8	75.2	617	8	CV928451	CV928451	PL010F4.m
C 287	16.2	77.1	875	5	BX734771	BX734771	BX734771	C 360	15.8	75.2	618	8	CV928451	CV928451	PL010F4.m
C 288	16.2	77.1	875	8	DN071544	DN071544	JGI_CABD6	C 361	15.8	75.2	624	5	BQ464676	BQ464676	HF02P04r
C 289	16.2	77.1	876	8	DR859784	DR859784	JGI_CABG4	C 362	15.8	75.2	626	1	AL967877	AL967877	AL967877
C 290	16.2	77.1	886	10	CG436261	CG436261	OG5EA32TV	C 363	15.8	75.2	635	1	CO206234	CO206234	WS00910.B
C 291	16.2	77.1	887	5	BX721040	BX721040	BX721040	C 364	15.8	75.2	635	9	AQ968194	AQ968194	LERIW68TR
C 292	16.2	77.1	890	8	CK545743	CK545743	UCKRPT01.5	C 365	15.8	75.2	636	9	AQ968194	AQ968194	LERIW68TR
C 293	16.2	77.1	896	8	CV821785	CV821785	80943_130	C 366	15.8	75.2	639	9	AQ968194	AQ968194	LERIW68TR
C 294	16.2	77.1	899	5	BX707102	BX707102	BX707102	C 367	15.8	75.2	648	1	AL956160	AL956160	AL956160
C 295	16.2	77.1	899	5	BX709537	BX709537	BX709537	C 368	15.8	75.2	650	3	B1523103	B1523103	603175693
C 296	16.2	77.1	904	2	BG260993	BG260993	602372610	C 369	15.8	75.2	651	3	BU285621	BU285621	BU285621
C 297	16.2	77.1	904	7	CR578929	CR578929	CR578929	C 370	15.8	75.2	656	7	CN218014	CN218014	RJA022E06
C 298	16.2	77.1	907	7	CK266883	CK266883	EST712961	C 371	15.8	75.2	663	6	CA763513	CA763513	BR060100B
C 299	16.2	77.1	915	6	CF590971	CF590971	AGENCOURT	C 372	15.8	75.2	671	1	AL586678	AL586678	AL586678
C 300	16.2	77.1	915	7	CO465057	CO465057	MZCCS1503	C 373	15.8	75.2	682	5	BU283889	BU283889	603599224
C 301	16.2	77.1	916	5	BX707344	BX707344	BX707344	C 374	15.8	75.2	715	3	BU286510	BU286510	BU286510
C 302	16.2	77.1	922	10	CG233715	CG233715	OGXCN39TV	C 375	15.8	75.2	736	8	DR091829	DR091829	RTAL1.24
C 303	16.2	77.1	923	7	CR586966	CR586966	CR586966	C 376	15.8	75.2	746	5	BU359152	BU359152	603476291
C 304	16.2	77.1	935	10	CG305111	CG305111	OG4BM72TC	C 377	15.8	75.2	755	8	CO158702	CO158702	FLD1.8.D1
C 305	16.2	77.1	986	11	CNS06TB2	AL414357	T7 end of	C 378	15.8	75.2	758	6	CF449831	CF449831	EST686176
C 306	16.2	77.1	1056	6	CA278959	CA278959	SCBFR7309	C 379	15.8	75.2	763	7	CN216321	CN216321	30208.Sue
C 307	16.2	77.1	1307	2	BG119497	BG119497	602349287	C 380	15.8	75.2	766	8	DR089464	DR089464	RTAL1.8.G
C 308	16.2	77.1	1527	10	AG054877	AG054877	Pan trogl	C 381	15.8	75.2	775	8	CV812901	CV812901	AGENCOURT
C 309	16.2	77.1	1989	10	CL969361	CL969361	OGIFC040	C 382	15.8	75.2	799	10	CL447244	CL447244	ZMWBB046
C 310	16.2	77.1	2673	4	AY109387	AY109387	Zea mays	C 383	15.8	75.2	800	10	AG086048	AG086048	Pan trogl
C 311	16.2	77.1	3171	11	DQ046920	DQ046920	Pan trogl	C 384	15.8	75.2	814	8	CX333748	CX333748	JGI_X2T69
C 312	16.2	77.1	3351	11	DQ046919	DQ046919	Homo sapi	C 385	15.8	75.2	821	5	BU404516	BU404516	603485475
C 313	16	76.2	395	9	AZ595818	AZ595818	IM0408K12	C 386	15.8	75.2	827	8	CK513231	CK513231	JGI_XZG57
C 314	16	76.2	478	9	BZ781341	BZ781341	i126h07.g	C 387	15.8	75.2	827	8	DR879864	DR879864	JGI_CABJ9

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395 15.8 75.2 893 10 CG055095
396 15.8 75.2 913 8 DN577405
397 15.8 75.2 926 10 CG055097
398 15.8 75.2 936 10 CG081799
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400 15.8 75.2 1081 5 DR740491
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404 15.8 75.2 1181 10 AG391974
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454 15.4 73.3 883 6 CD244054
455 15.4 73.3 890 10 CW708712
456 15.4 73.3 908 10 CG291709
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458 15.4 73.3 918 10 DU068448
459 15.4 73.3 986 10 CL510531
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DR560378 WS02619.C
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DN577405 92370596
CG055097 PUF1W33TD
CG081799 PUGK94TD
BU168526 AGENCOURT
DR740491 FGAS00043
BF2988583 018PBH09
CK209710 FGAS02148
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BE495714 WHE1282.G
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CF193466 16f18j2.f
CA966376 CCLX05a16
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CW045500 104_282_1
CN743221 SAL_US031
BU644506 mgn016XA
CF190846 k8o07j2.f
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AQ883374 HS_5471.B
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CZ412597 1008300.R
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BF229754 BP229754
CF809021 psHB041xN
BQ301599 MR4-HB004
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CW312396 104_802_1
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CN651554 Eq_CWGRS
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## ALIGNMENTS

## RESULT 1

BE216970/c

LOCUS

DEFINITION

EST0513 Triticum aestivum Lambda Zap

JAI 5C.E09 T3 5' similar to Putative acetohydroxyacid synthase,

mRNA sequence.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

336 bp mRNA linear EST 03-JUL-2000  
 BE216970 Triticum aestivum Lambda Zap Triticum aestivum cDNA clone  
 JAI 5C.E09 T3 5' similar to Putative acetohydroxyacid synthase,  
 mRNA sequence.

BE216970.1 GI:8904656  
 BE216970  
 EST.  
 BE216970.1 GI:8904656  
 Triticum aestivum (bread wheat)  
 Triticum aestivum  
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 Poimnophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 Spodiaceae; Triticeae; Triticum.  
 1 (bases 1 to 336)  
 Anderson, J.M., Williams, C.E. and Goodwin, S.B.  
 Analysis of an EST database reveals a probable CF2 resistance gene  
 homolog in wheat  
 Unpublished (2000)  
 Crop Production & Pest Control Research Unit  
 USDA-ARS  
 1150 Lilly Hall, West Lafayette, IN 47907, USA  
 Tel: 765-494-5565  
 Fax: 765-496-2926  
 Email: janderson@purdue.edu  
 Seq primer: T3  
 High quality sequence stop: 336.

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 72.568 Seconds  
(without alignments)  
514.397 Million cell updates/sec

Title: US-10-805-973-1

Perfect score: 21

Sequence: 1 cgcgcgaatatgtatccag 21

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : Issued Patents NA:\*

- 1: /cgn2\_6/ptodata/1/ina/1 COMB.seq:\*
- 2: /cgn2\_6/ptodata/1/ina/5 COMB.seq:\*
- 3: /cgn2\_6/ptodata/1/ina/6A COMB.seq:\*
- 4: /cgn2\_6/ptodata/1/ina/6B COMB.seq:\*
- 5: /cgn2\_6/ptodata/1/ina/H COMB.seq:\*
- 6: /cgn2\_6/ptodata/1/ina/PTUS COMB.seq:\*
- 7: /cgn2\_6/ptodata/1/ina/PP COMB.seq:\*
- 8: /cgn2\_6/ptodata/1/ina/RE COMB.seq:\*
- 9: /cgn2\_6/ptodata/1/ina/backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	17.8	84.8	1095	3	US-10-258-842-1
2	17.8	84.8	1985	3	US-10-258-842-20
3	17.8	84.8	1986	3	US-10-258-842-14
4	17.8	84.8	1986	3	US-10-258-842-18
5	17.8	84.8	1986	3	US-10-258-842-24
6	16.4	78.1	2736	3	US-09-489-039A-6366
7	16.2	77.1	1969	2	US-07-737-851-1
8	16.2	77.1	1969	2	US-07-737-851-2
9	16.2	77.1	1969	2	US-07-737-851-3
10	16.2	77.1	1969	2	US-07-894-062-1
11	16.2	77.1	1969	2	US-07-894-062-2
12	16.2	77.1	1969	2	US-07-894-062-3
13	16.2	77.1	1969	3	US-09-096-562-1
14	16.2	77.1	1969	3	US-09-096-562-2
15	16.2	77.1	1969	3	US-09-096-562-3
16	16.2	77.1	2279	3	US-10-258-842-4
17	16.2	77.1	2301	3	US-10-258-842-2
18	15.8	75.2	18912	6	PCT-US96-03916-59
19	15.8	75.2	18912	6	PCT-US96-03916-59
20	15.8	75.2	18913	3	US-09-993-777-59
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22	15.4	73.3	29	3	US-09-688-017-359
23	15.4	73.3	3457	3	US-10-104-047-998
24	15.2	72.4	601	3	US-09-949-016-94887

Sequence 94903, A	US-09-949-016-94903	601	72.4	15.2	C 25
Sequence 140038, A	US-09-949-016-140038	601	72.4	15.2	C 26
Sequence 140054, A	US-09-949-016-140054	601	72.4	15.2	C 27
Sequence 150953, A	US-09-949-016-150953	601	72.4	15.2	C 28
Sequence 5207, Ap	US-09-489-039A-5207	642	72.4	15.2	C 29
Sequence 6349, Ap	US-09-533-559-6349	666	72.4	15.2	C 30
Sequence 15, Appl	US-09-489-039A-1929	1053	72.4	15.2	C 31
Sequence 15, Appl	US-08-016-863-15	2624	72.4	15.2	C 32
Sequence 15, Appl	US-08-276-968A-15	2624	72.4	15.2	C 33
Sequence 479, Appl	US-09-540-236-479	2820	72.4	15.2	C 34
Sequence 94, Appl	US-09-453-702B-94	3404	72.4	15.2	C 35
Sequence 94, Appl	US-10-114-170-94	3404	72.4	15.2	C 36
Sequence 3959, Ap	US-09-949-016-3959	3411	72.4	15.2	C 37
Sequence 3960, Ap	US-09-949-016-3960	3411	72.4	15.2	C 38
Sequence 2762, Ap	US-09-949-016-2762	3482	72.4	15.2	C 39
Sequence 2763, Ap	US-09-949-016-2763	3482	72.4	15.2	C 40
Sequence 157, Appl	US-09-453-702B-157	4190	72.4	15.2	C 41
Sequence 157, Appl	US-10-114-170-157	4190	72.4	15.2	C 42
Sequence 254, Appl	US-09-453-702B-254	11481	72.4	15.2	C 43
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Sequence 12527, A	US-09-949-016-12527	12180	72.4	15.2	C 45
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Sequence 14504, A	US-09-949-016-14504	21296	72.4	15.2	C 47
Sequence 14505, A	US-09-949-016-14505	21296	72.4	15.2	C 48
Sequence 15701, A	US-09-949-016-15701	21296	72.4	15.2	C 49
Sequence 15702, A	US-09-949-016-15702	21296	72.4	15.2	C 50
Sequence 31, Appl	US-09-596-002-31	65792	72.4	15.2	C 51
Sequence 1710, A	US-09-949-016-1710	78720	72.4	15.2	C 52
Sequence 17283, A	US-09-949-016-17283	78720	72.4	15.2	C 53
Sequence 15980, A	US-09-949-016-15980	239527	72.4	15.2	C 54
Sequence 1, Appli	US-09-557-884-1	1830121	72.4	15.2	C 55
Sequence 1, Appli	US-09-643-990A-1	1830121	72.4	15.2	C 56
Sequence 1, Appli	US-10-158-865-1	336	72.4	15.2	C 57
Sequence 23408, A	US-09-270-767-29408	926	70.5	14.8	C 58
Sequence 13437, A	US-08-747-221B-27	1710	70.5	14.8	C 59
Sequence 27, Appl	US-08-747-221B-33	1710	70.5	14.8	C 60
Sequence 33, Appl	US-09-005-051-27	1710	70.5	14.8	C 61
Sequence 27, Appl	US-09-005-051-33	1710	70.5	14.8	C 62
Sequence 33, Appl	US-09-403-942F-27	1710	70.5	14.8	C 63
Sequence 27, Appl	US-09-403-942F-33	1710	70.5	14.8	C 64
Sequence 33, Appl	US-08-747-221B-33	1785	70.5	14.8	C 65
Sequence 34, Appl	US-08-747-221B-34	1785	70.5	14.8	C 66
Sequence 35, Appl	US-08-747-221B-35	1785	70.5	14.8	C 67
Sequence 34, Appl	US-09-005-051-34	1785	70.5	14.8	C 68
Sequence 35, Appl	US-09-005-051-35	1785	70.5	14.8	C 69
Sequence 34, Appl	US-09-403-942F-34	1785	70.5	14.8	C 70
Sequence 35, Appl	US-09-403-942F-35	1785	70.5	14.8	C 71
Sequence 28, Appl	US-08-747-221B-28	1788	70.5	14.8	C 72
Sequence 29, Appl	US-08-747-221B-29	1788	70.5	14.8	C 73
Sequence 28, Appl	US-09-005-051-28	1788	70.5	14.8	C 74
Sequence 29, Appl	US-09-005-051-29	1788	70.5	14.8	C 75
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Sequence 29, Appl	US-09-403-942F-29	1788	70.5	14.8	C 77
Sequence 29, Appl	US-09-489-039A-6191	1914	70.5	14.8	C 78
Sequence 1, Appli	US-08-760-615-1	2172	70.5	14.8	C 79
Sequence 1, Appli	US-09-650-086A-1	2298	70.5	14.8	C 80
Sequence 1, Appli	US-10-226-795-1	2298	70.5	14.8	C 81
Sequence 5955, Ap	US-09-489-039A-5955	2736	70.5	14.8	C 82
Sequence 30, Appl	US-08-747-221B-30	2801	70.5	14.8	C 83
Sequence 32, Appl	US-08-747-221B-32	2801	70.5	14.8	C 84
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Sequence 32, Appl	US-09-005-051-32	2801	70.5	14.8	C 86
Sequence 30, Appl	US-09-403-942F-30	2801	70.5	14.8	C 87
Sequence 32, Appl	US-09-403-942F-32	2801	70.5	14.8	C 88
Sequence 24, Appl	US-08-747-221B-24	2836	70.5	14.8	C 89
Sequence 26, Appl	US-08-747-221B-26	2836	70.5	14.8	C 90
Sequence 24, Appl	US-09-005-051-24	2836	70.5	14.8	C 91
Sequence 26, Appl	US-09-005-051-26	2836	70.5	14.8	C 92
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Sequence 26, Appl	US-09-403-942F-26	2836	70.5	14.8	C 94
Sequence 4, Appli	US-07-689-008-5	3957	70.5	14.8	C 95
Sequence 3, Appli	US-09-913-909-3	7272	70.5	14.8	C 96
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98	14.8	70.5	9540	2	US-07-689-008-1	Sequence 1, Appli	171	14.2	67.6	3015	3	US-09-067-091-1	Sequence 1, Appli
99	14.8	70.5	16836	3	US-09-147-236-1	Sequence 1, Appli	172	14.2	67.6	3659	3	US-09-949-016-3826	Sequence 3826, Ap
100	14.8	70.5	16836	3	US-09-147-236-10	Sequence 10, Appl	173	14.2	67.6	7948	3	US-09-949-016-17596	Sequence 17596, A
101	14.8	70.5	16836	3	US-09-522-474-1	Sequence 1, Appli	174	14.2	67.6	12797	3	US-09-949-016-15274	Sequence 17, Appl
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104	14.8	70.5	151088	3	US-09-949-016-16240	Sequence 16240, A	c 177	14.2	67.6	34078	3	US-09-949-016-17588	Sequence 17588, A
c 105	14.6	69.5	224	3	US-09-513-999C-22630	Sequence 22630, A	178	14.2	67.6	61663	3	US-09-453-702B-62	Sequence 62, Appl
c 106	14.6	69.5	514	3	US-10-131-827-8435	Sequence 8435, Ap	179	14.2	67.6	61663	3	US-10-114-170-62	Sequence 62, Appl
c 107	14.6	69.5	597	3	US-09-711-164-229	Sequence 229, App	c 180	14.2	67.6	66986	3	US-09-596-002-29	Sequence 29, Appl
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c 110	14.6	69.5	1098	3	US-09-489-039A-3350	Sequence 3350, Ap	183	14.2	67.6	189560	3	US-09-949-016-17202	Sequence 17202, A
c 111	14.6	69.5	1135	3	US-08-956-171E-512	Sequence 512, App	184	14.2	67.6	275110	3	US-09-949-016-12706	Sequence 12706, A
c 112	14.6	69.5	1135	3	US-08-781-986A-512	Sequence 512, App	185	14.2	67.6	275110	3	US-09-949-016-12706	Sequence 12706, A
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114	14.6	69.5	1625	3	US-09-270-767-649	Sequence 649, App	c 187	14.2	67.6	536165	3	US-09-214-808-1	Sequence 1, Appli
115	14.6	69.5	1625	3	US-09-270-767-649	Sequence 649, App	188	14.2	67.6	4403765	3	US-09-103-840A-2	Sequence 2, Appli
c 116	14.6	69.5	1884	3	US-09-328-352-791	Sequence 791, App	189	14.2	67.6	4411529	3	US-09-103-840A-1	Sequence 1, Appli
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118	14.6	69.5	1894	2	US-08-306-063-66	Sequence 66, Appl	c 191	14	66.7	601	3	US-09-949-016-147480	Sequence 147480, A
119	14.6	69.5	1894	2	US-08-833-485-66	Sequence 66, Appl	192	14	66.7	1261	3	US-09-270-767-11754	Sequence 11754, A
120	14.6	69.5	1894	2	US-09-137-440-66	Sequence 66, Appl	193	14	66.7	4491	3	US-08-809-917-25	Sequence 25, Appl
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c 122	14.6	69.5	2432	3	US-08-078-683A-1	Sequence 1, Appli	195	14	66.7	87470	3	US-09-949-016-15881	Sequence 15881, A
c 123	14.6	69.5	2432	3	US-08-471-970A-1	Sequence 1, Appli	196	13.8	65.7	25	3	US-09-396-196G-69011	Sequence 69011, A
c 124	14.6	69.5	2432	3	US-09-723-677B-1	Sequence 1, Appli	197	13.8	65.7	25	3	US-09-396-196G-69011	Sequence 69011, A
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127	14.6	69.5	3132	3	US-09-640-101-45	Sequence 45, Appl	200	13.8	65.7	480	3	US-09-489-039A-5404	Sequence 5404, Ap
c 128	14.6	69.5	3471	3	US-09-902-540-8385	Sequence 8385, Ap	201	13.8	65.7	546	3	US-09-248-796A-1499	Sequence 1499, Ap
c 129	14.6	69.5	7186	3	US-09-902-540-879	Sequence 879, App	c 202	13.8	65.7	568	3	US-09-621-976-16488	Sequence 16488, A
c 130	14.6	69.5	26700	2	US-08-472-217-1	Sequence 1, Appli	203	13.8	65.7	598	3	US-08-998-416-368	Sequence 368, App
c 131	14.6	69.5	26700	2	US-08-488-199-5	Sequence 5, Appli	204	13.8	65.7	601	3	US-09-949-016-55105	Sequence 55105, A
c 132	14.6	69.5	26700	3	US-08-760-534A-1	Sequence 1, Appli	205	13.8	65.7	601	3	US-09-949-016-55106	Sequence 55106, A
c 133	14.6	69.5	26700	3	US-09-336-757-1	Sequence 1, Appli	c 206	13.8	65.7	1392	3	US-09-328-352-1856	Sequence 1856, App
134	14.6	69.5	1230025	3	US-09-198-452A-1	Sequence 1, Appli	c 207	13.8	65.7	1473	3	US-09-614-221A-576	Sequence 576, App
135	14.6	69.5	1230230	3	US-09-438-185A-1	Sequence 1, Appli	208	13.8	65.7	1476	3	US-09-248-796A-5209	Sequence 5209, Ap
c 136	14.4	68.6	601	3	US-09-949-016-17986	Sequence 17986, A	209	13.8	65.7	1802	3	US-09-289-377-1	Sequence 1, Appli
c 137	14.4	68.6	612	3	US-09-621-976-1483	Sequence 1483, Ap	210	13.8	65.7	2239	3	US-09-639-207-2	Sequence 2, Appli
138	14.4	68.6	1029	3	US-09-270-767-13746	Sequence 13746, A	c 211	13.8	65.7	2346	2	US-08-724-298A-1	Sequence 1, Appli
139	14.4	68.6	2253	3	US-09-248-796A-5011	Sequence 5011, Ap	c 212	13.8	65.7	2346	2	US-09-616-430-1	Sequence 1, Appli
140	14.4	68.6	19408	3	US-09-949-016-17350	Sequence 17350, A	213	13.8	65.7	2791	3	US-09-016-434-1263	Sequence 1263, Ap
141	14.4	68.6	65966	3	US-09-949-016-17152	Sequence 17152, A	214	13.8	65.7	2821	3	US-09-221-017B-493	Sequence 493, App
c 142	14.4	68.6	151256	3	US-09-949-016-12674	Sequence 12674, A	215	13.8	65.7	4168	3	US-09-266-225D-17	Sequence 17, Appl
c 143	14.4	68.6	151261	3	US-09-949-016-13242	Sequence 13242, A	216	13.8	65.7	4279	3	US-09-041-886-22	Sequence 22, Appl
c 144	14.2	67.6	488	3	US-09-533-559-1324	Sequence 1324, Ap	c 217	13.8	65.7	4291	2	US-08-417-210A-81	Sequence 81, Appl
c 145	14.2	67.6	601	3	US-09-949-016-154637	Sequence 154637, A	c 218	13.8	65.7	4291	2	US-09-136-159A-81	Sequence 81, Appl
c 146	14.2	67.6	601	3	US-09-949-016-179828	Sequence 179828, A	219	13.8	65.7	4615	2	US-08-674-351-3	Sequence 3, Appli
c 147	14.2	67.6	601	3	US-09-949-016-206602	Sequence 206602, A	220	13.8	65.7	5476	3	US-09-221-017B-147	Sequence 147, App
c 148	14.2	67.6	601	3	US-09-949-016-206602	Sequence 206602, A	221	13.8	65.7	23219	3	US-09-949-016-13556	Sequence 13556, A
c 149	14.2	67.6	678	3	US-09-328-352-81	Sequence 81, Appl	c 222	13.8	65.7	87567	3	US-09-949-016-13335	Sequence 13335, A
150	14.2	67.6	681	3	US-09-540-236-1867	Sequence 1867, Ap	223	13.8	65.7	87567	3	US-09-949-016-13335	Sequence 13335, A
151	14.2	67.6	788	3	US-09-705-621-39	Sequence 39, Appl	c 224	13.8	65.7	256171	3	US-09-949-016-15790	Sequence 15790, A
c 152	14.2	67.6	948	3	US-09-533-559-693	Sequence 693, App	c 225	13.8	65.7	256171	3	US-09-949-016-12882	Sequence 12882, A
153	14.2	67.6	987	3	US-09-949-016-5854	Sequence 5854, Ap	c 226	13.8	65.7	636591	3	US-09-949-016-15524	Sequence 15524, A
154	14.2	67.6	993	3	US-09-489-039A-4468	Sequence 4468, Ap	227	13.8	65.7	636591	3	US-09-949-016-11808	Sequence 11808, A
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161	14.2	67.6	1162	3	US-09-489-039A-2480	Sequence 2480, Ap	234	13.6	64.8	297	3	US-09-313-294A-504	Sequence 116, App
c 162	14.2	67.6	1193	3	US-09-541-941B-27	Sequence 27, Appl	c 235	13.6	64.8	372	3	US-10-125-258-116	Sequence 116, App
c 163	14.2	67.6	1309	3	US-08-362-495-4	Sequence 4, Appli	c 236	13.6	64.8	375	3	US-09-761-466-1	Sequence 1, Appli
c 164	14.2	67.6	1309	3	US-09-408-508-4	Sequence 4, Appli	c 237	13.6	64.8	407	3	US-09-513-999C-1892	Sequence 1892, Ap
165	14.2	67.6	1548	3	US-09-543-681A-4108	Sequence 4108, Ap	c 238	13.6	64.8	409	3	US-09-270-767-15265	Sequence 15265, A
166	14.2	67.6	2397	3	US-09-583-110-443	Sequence 443, App	c 239	13.6	64.8	440	3	US-09-621-976-10827	Sequence 10827, A
167	14.2	67.6	2415	3	US-09-067-091-5	Sequence 5, Appli	c 240	13.6	64.8	442	3	US-09-621-976-10827	Sequence 15238, A
168	14.2	67.6	2415	3	US-09-107-433-1881	Sequence 1881, Ap	c 241	13.6	64.8	452	3	US-09-385-982-350	Sequence 350, App
169	14.2	67.6	2690	3	US-09-705-621-37	Sequence 37, Appl	c 242	13.6	64.8	452	3	US-09-270-767-5969	Sequence 5969, Ap
170	14.2	67.6	2694	3	US-09-543-681A-77	Sequence 77, Appl	c 243	13.6	64.8	452	3	US-09-270-767-21251	Sequence 21251, A

C 244	13.6	64.8	463	3	US-08-991-789A-50	Sequence 50, Appl	317	13.6	64.8	1518	2	US-08-929-501-5	Sequence 5, Appl
C 245	13.6	64.8	463	3	US-09-062-451-50	Sequence 50, Appl	C 318	13.6	64.8	1518	3	US-09-140-177-4	Sequence 4, Appl
C 246	13.6	64.8	463	3	US-09-598-326-50	Sequence 50, Appl	C 319	13.6	64.8	1518	3	US-09-140-177-5	Sequence 5, Appl
C 247	13.6	64.8	463	3	US-09-289-198-50	Sequence 50, Appl	C 320	13.6	64.8	1518	3	US-09-397-979-4	Sequence 4, Appl
C 248	13.6	64.8	463	3	US-09-429-755-50	Sequence 50, Appl	C 321	13.6	64.8	1518	3	US-09-397-979-5	Sequence 5, Appl
C 249	13.6	64.8	463	3	US-09-699-295-50	Sequence 50, Appl	C 322	13.6	64.8	1552	3	US-09-665-189A-70	Sequence 70, Appl
C 250	13.6	64.8	463	3	US-09-534-825A-50	Sequence 50, Appl	C 323	13.6	64.8	1578	3	US-09-328-352-2557	Sequence 2557, Ap
C 251	13.6	64.8	468	3	US-09-533-559-3872	Sequence 3872, Ap	C 324	13.6	64.8	1610	3	US-09-902-540-162	Sequence 162, App
C 252	13.6	64.8	483	3	US-09-621-976-17714	Sequence 17714, A	C 325	13.6	64.8	1653	3	US-09-252-991A-8491	Sequence 8491, Ap
C 253	13.6	64.8	511	3	US-09-624-268B-13	Sequence 13, Appl	C 326	13.6	64.8	1753	2	US-08-929-501-1	Sequence 1, Appl
C 254	13.6	64.8	514	3	US-09-621-976-15237	Sequence 15237, A	C 327	13.6	64.8	1753	2	US-08-929-501-3	Sequence 3, Appl
C 255	13.6	64.8	522	3	US-09-328-352-1109	Sequence 1109, Ap	C 328	13.6	64.8	1753	3	US-09-140-177-1	Sequence 1, Appl
C 256	13.6	64.8	526	3	US-08-777-708C-4	Sequence 4, Appl	C 329	13.6	64.8	1753	3	US-09-140-177-3	Sequence 3, Appl
C 257	13.6	64.8	537	3	US-09-252-991A-15270	Sequence 15270, A	C 330	13.6	64.8	1753	3	US-09-397-979-1	Sequence 1, Appl
C 258	13.6	64.8	578	3	US-09-385-982-432	Sequence 432, App	C 331	13.6	64.8	1753	3	US-09-397-979-3	Sequence 3, Appl
C 259	13.6	64.8	580	3	US-09-270-767-11615	Sequence 11615, A	C 332	13.6	64.8	1755	3	US-09-489-039A-6966	Sequence 6966, Ap
C 260	13.6	64.8	589	3	US-09-513-999C-11199	Sequence 11199, A	C 333	13.6	64.8	1770	2	US-08-929-501-11	Sequence 11, Appl
C 261	13.6	64.8	601	3	US-09-949-016-21633	Sequence 21633, A	C 334	13.6	64.8	1770	2	US-08-929-501-13	Sequence 13, Appl
C 262	13.6	64.8	601	3	US-09-949-016-21634	Sequence 21634, A	C 335	13.6	64.8	1770	3	US-09-140-177-11	Sequence 11, Appl
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C 264	13.6	64.8	601	3	US-09-949-016-21636	Sequence 21636, A	C 337	13.6	64.8	1770	3	US-09-397-979-11	Sequence 11, Appl
C 265	13.6	64.8	601	3	US-09-949-016-21637	Sequence 21637, A	C 338	13.6	64.8	1770	3	US-09-397-979-13	Sequence 13, Appl
C 266	13.6	64.8	601	3	US-09-949-016-61653	Sequence 61653, A	C 339	13.6	64.8	2073	2	US-08-929-501-25	Sequence 25, Appl
C 267	13.6	64.8	601	3	US-09-949-016-61775	Sequence 61775, A	C 340	13.6	64.8	2073	2	US-08-929-501-26	Sequence 26, Appl
C 268	13.6	64.8	601	3	US-09-949-016-65981	Sequence 65981, A	C 341	13.6	64.8	2073	3	US-09-140-177-25	Sequence 25, Appl
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C 273	13.6	64.8	601	3	US-09-949-016-156556	Sequence 156556, A	C 346	13.6	64.8	2156	2	US-08-321-356-1	Sequence 1, Appl
C 274	13.6	64.8	601	3	US-09-949-016-156557	Sequence 156557, A	C 347	13.6	64.8	2156	2	US-08-321-356-3	Sequence 3, Appl
C 275	13.6	64.8	601	3	US-09-949-016-156558	Sequence 156558, A	C 348	13.6	64.8	2160	2	US-08-651-818A-1	Sequence 1, Appl
C 276	13.6	64.8	601	3	US-09-949-016-161997	Sequence 161997, A	C 349	13.6	64.8	2160	3	US-09-184-826-1	Sequence 1, Appl
C 277	13.6	64.8	601	3	US-09-949-016-201335	Sequence 201335, A	C 350	13.6	64.8	2160	3	US-09-832-464-1	Sequence 1, Appl
C 278	13.6	64.8	601	3	US-09-949-016-201449	Sequence 201449, A	C 351	13.6	64.8	2220	3	US-09-489-039A-4703	Sequence 4703, Ap
C 279	13.6	64.8	628	3	US-09-270-767-26503	Sequence 26503, A	C 352	13.6	64.8	2376	3	US-09-252-991A-15323	Sequence 15323, A
C 280	13.6	64.8	632	3	US-09-624-268B-9	Sequence 9, Appl	C 353	13.6	64.8	2505	3	US-09-291-839-3	Sequence 3, Appl
C 281	13.6	64.8	661	3	US-09-640-211A-417	Sequence 417, App	C 354	13.6	64.8	2505	3	US-09-458-457-3	Sequence 3, Appl
C 282	13.6	64.8	677	3	US-09-533-559-6789	Sequence 6789, Ap	C 355	13.6	64.8	2505	3	US-09-947-199A-3	Sequence 3, Appl
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C 284	13.6	64.8	727	3	US-09-270-767-1468	Sequence 1468, Ap	C 357	13.6	64.8	2571	3	US-09-252-991A-1279	Sequence 1279, Ap
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C 286	13.6	64.8	733	3	US-08-936-165A-166	Sequence 16550, A	C 359	13.6	64.8	2676	3	US-09-543-681A-1583	Sequence 1583, Ap
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C 288	13.6	64.8	771	3	US-09-489-039A-1603	Sequence 1603, Ap	C 361	13.6	64.8	3025	3	US-09-458-457-1	Sequence 1, Appl
C 289	13.6	64.8	771	3	US-09-134-000C-2455	Sequence 2455, Ap	C 362	13.6	64.8	3025	3	US-09-947-199A-1	Sequence 1, Appl
C 290	13.6	64.8	772	3	US-09-270-767-10998	Sequence 10998, A	C 363	13.6	64.8	3119	3	US-09-949-016-1939	Sequence 1939, Ap
C 291	13.6	64.8	852	3	US-09-582-772-1	Sequence 1, Appl	C 364	13.6	64.8	3389	3	US-09-949-002-240	Sequence 240, App
C 292	13.6	64.8	866	3	US-09-620-312D-682	Sequence 682, App	C 365	13.6	64.8	3546	3	US-09-118-442-14	Sequence 14, Appl
C 293	13.6	64.8	867	3	US-09-489-039A-1712	Sequence 1712, Ap	C 366	13.6	64.8	3546	3	US-09-118-442-15	Sequence 15, Appl
C 294	13.6	64.8	893	3	US-09-252-991A-4660	Sequence 4660, Ap	C 367	13.6	64.8	3546	3	US-09-677-064-14	Sequence 14, Appl
C 295	13.6	64.8	917	3	US-09-270-767-7157	Sequence 7157, Ap	C 368	13.6	64.8	3546	3	US-09-677-064-15	Sequence 15, Appl
C 296	13.6	64.8	917	3	US-09-270-767-22439	Sequence 22439, A	C 369	13.6	64.8	3632	2	US-08-424-788-4	Sequence 4, Appl
C 297	13.6	64.8	960	3	US-09-328-352-984	Sequence 984, App	C 370	13.6	64.8	3632	2	US-08-110-683-1	Sequence 1, Appl
C 298	13.6	64.8	1020	3	US-09-270-767-1194	Sequence 1194, Ap	C 371	13.6	64.8	3632	2	US-08-683-743-1	Sequence 1, Appl
C 299	13.6	64.8	1020	3	US-09-270-767-16476	Sequence 16476, A	C 372	13.6	64.8	3632	2	US-08-477-166-1	Sequence 1, Appl
C 300	13.6	64.8	1072	3	US-09-761-466-3	Sequence 3, Appl	C 373	13.6	64.8	3632	2	US-08-472-097-1	Sequence 1, Appl
C 301	13.6	64.8	1098	3	US-09-134-000C-2595	Sequence 2595, Ap	C 374	13.6	64.8	3632	3	US-09-439-672-1	Sequence 1, Appl
C 302	13.6	64.8	1104	3	US-09-252-991A-8808	Sequence 8808, Ap	C 375	13.6	64.8	3632	3	US-09-495-052-57	Sequence 57, Appl
C 303	13.6	64.8	1133	3	US-09-533-559-309	Sequence 309, App	C 376	13.6	64.8	3632	3	US-09-023-655-1421	Sequence 1421, Ap
C 304	13.6	64.8	1155	4	US-09-605-703B-179	Sequence 179, App	C 377	13.6	64.8	3632	3	US-09-949-002-36	Sequence 36, Appl
C 305	13.6	64.8	1203	3	US-09-489-039A-2620	Sequence 2620, App	C 378	13.6	64.8	3632	6	PC7-US93-11638-1	Sequence 1, Appl
C 306	13.6	64.8	1263	3	US-09-489-039A-7114	Sequence 7114, Ap	C 379	13.6	64.8	3632	3	US-09-543-681A-3489	Sequence 3489, Ap
C 307	13.6	64.8	1251	4	US-09-605-703B-181	Sequence 181, App	C 380	13.6	64.8	4079	3	US-09-016-434-1477	Sequence 1477, Ap
C 308	13.6	64.8	1254	3	US-09-252-991A-9160	Sequence 9160, Ap	C 381	13.6	64.8	4323	2	US-09-270-767-12086	Sequence 12086, A
C 309	13.6	64.8	1254	3	US-09-270-767-12990	Sequence 12990, A	C 382	13.6	64.8	4323	2	US-08-365-486A-18	Sequence 18, Appl
C 310	13.6	64.8	1263	3	US-09-252-991A-13340	Sequence 13340, A	C 383	13.6	64.8	4353	2	US-08-880-342-18	Sequence 18, Appl
C 311	13.6	64.8	1263	3	US-09-328-352-686	Sequence 686, App	C 384	13.6	64.8	4780	2	US-08-365-486A-20	Sequence 20, Appl
C 312	13.6	64.8	1431	3	US-09-252-991A-132608	Sequence 12608, A	C 385	13.6	64.8	4780	3	US-09-123-708-3	Sequence 3, Appl
C 313	13.6	64.8	1431	3	US-09-252-991A-1331	Sequence 1331, Ap	C 386	13.6	64.8	4780	3	US-09-123-624-3	Sequence 20, Appl
C 314	13.6	64.8	1469	3	US-09-270-767-10684	Sequence 10684, A	C 387	13.6	64.8	4780	3	US-08-880-342-20	Sequence 20, Appl
C 315	13.6	64.8	1473	3	US-09-252-991A-8378	Sequence 8378, Ap	C 388	13.6	64.8	5687	3	US-09-221-017B-368	Sequence 368, App
C 316	13.6	64.8	1518	2	US-08-929-501-4	Sequence 4, Appl	C 389	13.6	64.8	6317	2	US-08-920-812-21	Sequence 21, Appl





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81	15.2	72.4	100	6	US-10-348-074-14
82	15.2	72.4	243	7	US-10-424-599-43628
83	15.2	72.4	255	8	US-10-425-115-130924
84	15.2	72.4	368	8	US-10-425-115-45061
85	15.2	72.4	382	8	US-10-425-115-9282
86	15.2	72.4	415	9	US-10-779-543-16727
87	15.2	72.4	417	4	US-09-925-065A-318950
88	15.2	72.4	509	7	US-10-767-701-2663
89	15.2	72.4	561	7	US-10-424-599-63448
90	15.2	72.4	576	5	US-10-027-632-252717
91	15.2	72.4	576	6	US-10-027-632-252717
92	15.2	72.4	588	4	US-09-925-065A-757946
93	15.2	72.4	622	4	US-09-925-065A-180272
94	15.2	72.4	622	4	US-09-925-065A-180273
95	15.2	72.4	666	8	US-10-653-047-6349
96	15.2	72.4	810	6	US-10-369-493-37031

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C 97	15.2	72.4	834	7	US-10-282-1322A-41496	Sequence 41496, A	170	14.8	70.5	4802	7	US-10-263-929-30	Sequence 30, Appl
98	15.2	72.4	864	5	US-10-027-632-160328	Sequence 160328, A	171	14.8	70.5	4802	7	US-10-267-502-24	Sequence 24, Appl
99	15.2	72.4	864	6	US-10-027-632-160328	Sequence 160328, A	172	14.8	70.5	5110	10	US-11-097-143-21572	Sequence 21572, A
C 100	15.2	72.4	870	6	US-10-369-493-37233	Sequence 37233, A	C 173	14.8	70.5	5651	3	US-09-780-933-6	Sequence 6, Appl
C 101	15.2	72.4	903	6	US-10-369-493-37233	Sequence 37233, A	174	14.8	70.5	5651	3	US-09-896-896A-4	Sequence 4, Appl
C 102	15.2	72.4	903	6	US-10-369-493-37233	Sequence 37233, A	175	14.8	70.5	6051	10	US-11-097-143-25477	Sequence 25477, A
C 103	15.2	72.4	1279	7	US-10-424-559-38020	Sequence 38020, A	C 176	14.8	70.5	6186	3	US-09-780-933-5	Sequence 5, Appl
C 104	15.2	72.4	1382	8	US-10-425-115-163035	Sequence 163035, A	177	14.8	70.5	6186	3	US-09-896-896A-3	Sequence 3, Appl
C 105	15.2	72.4	1528	7	US-10-437-963-42083	Sequence 42083, A	C 178	14.8	70.5	6213	3	US-09-780-933-7	Sequence 7, Appl
C 106	15.2	72.4	1530	7	US-10-437-963-42083	Sequence 42083, A	C 179	14.8	70.5	6213	3	US-09-896-896A-7	Sequence 7, Appl
C 107	15.2	72.4	1630	10	US-11-097-143-24017	Sequence 24017, A	C 180	14.8	70.5	6467	8	US-10-491-121-10	Sequence 10, Appl
C 108	15.2	72.4	1656	9	US-10-469-204-109	Sequence 109, App	C 181	14.8	70.5	6561	8	US-10-491-121-4	Sequence 4, Appl
C 109	15.2	72.4	2036	7	US-10-437-963-101656	Sequence 101656, A	C 182	14.8	70.5	6624	8	US-10-491-121-3	Sequence 3, Appl
C 110	15.2	72.4	3144	9	US-10-745-237-323	Sequence 323, App	C 183	14.8	70.5	6887	8	US-10-491-121-6	Sequence 6, Appl
C 111	15.2	72.4	3150	9	US-10-469-204-52	Sequence 52, Appl	C 184	14.8	70.5	6914	8	US-10-491-121-9	Sequence 9, Appl
C 112	15.2	72.4	3404	5	US-10-114-170-94	Sequence 94, Appl	C 185	14.8	70.5	7044	8	US-10-491-121-7	Sequence 7, Appl
C 113	15.2	72.4	3513	7	US-10-260-238-472	Sequence 472, App	C 186	14.8	70.5	7154	8	US-10-491-121-1	Sequence 1, Appl
C 114	15.2	72.4	3630	10	US-11-097-143-24016	Sequence 24016, A	C 187	14.8	70.5	7188	8	US-10-491-121-2	Sequence 2, Appl
C 115	15.2	72.4	4190	5	US-10-114-170-157	Sequence 157, App	C 188	14.8	70.5	7272	9	US-10-860-878-4	Sequence 4, Appl
C 116	15.2	72.4	5450	7	US-10-437-963-67588	Sequence 67588, A	C 189	14.8	70.5	7285	9	US-10-860-878-3	Sequence 3, Appl
C 117	15.2	72.4	6752	8	US-10-688-845-43	Sequence 43, Appl	C 190	14.8	70.5	7762	10	US-11-097-143-21571	Sequence 21571, A
C 118	15.2	72.4	7991	9	US-10-795-159-350	Sequence 550, App	C 191	14.8	70.5	8199	8	US-10-491-121-29	Sequence 29, Appl
C 119	15.2	72.4	11481	5	US-10-114-170-254	Sequence 254, App	C 192	14.8	70.5	8439	8	US-10-491-121-28	Sequence 28, Appl
C 120	15.2	72.4	44377	6	US-10-085-117-40	Sequence 40, Appl	C 193	14.8	70.5	9263	10	US-11-097-143-19999	Sequence 19999, A
C 121	15.2	72.4	65792	7	US-10-672-787-31	Sequence 31, Appl	C 194	14.8	70.5	10783	8	US-10-491-121-25	Sequence 25, Appl
C 122	15.2	72.4	94720	7	US-10-052-482-160	Sequence 160, App	C 195	14.8	70.5	18959	6	US-10-353-856-19	Sequence 19, Appl
C 123	15.2	72.4	191996	9	US-10-795-159-683	Sequence 683, App	C 196	14.8	70.5	18959	6	US-10-353-856-37	Sequence 37, Appl
C 124	15.2	72.4	483728	8	US-10-699-156-2	Sequence 2, Appl	C 197	14.8	70.5	18959	6	US-10-353-856-46	Sequence 46, Appl
C 125	15.2	72.4	1830121	7	US-10-329-670-1	Sequence 1, Appl	C 198	14.8	70.5	40152	10	US-11-097-143-23353	Sequence 23353, A
C 126	15.2	72.4	1830121	8	US-10-158-865-1	Sequence 1, Appl	C 199	14.8	70.5	62231	5	US-10-087-192-493	Sequence 493, App
C 127	15.2	72.4	1830121	9	US-10-981-687-1	Sequence 1, Appl	C 200	14.8	70.5	439892	5	US-10-087-192-454	Sequence 454, App
C 128	15	71.4	665	7	US-10-424-599-64225	Sequence 64225, A	C 201	14.8	70.5	1790242	8	US-10-719-993-6940	Sequence 6940, App
C 129	14.8	70.5	201	8	US-10-719-993-33888	Sequence 33888, A	C 202	14.8	70.5	2140405	5	US-10-027-632-76212	Sequence 76212, A
C 130	14.8	70.5	432	7	US-10-437-963-72090	Sequence 72090, A	C 203	14.8	70.5	2140405	6	US-10-027-632-76212	Sequence 76212, A
C 131	14.8	70.5	607	7	US-10-437-963-55214	Sequence 55214, A	C 204	14.6	69.5	25	10	US-11-036-317-493198	Sequence 493198, A
C 132	14.8	70.5	659	4	US-09-925-065A-39435	Sequence 39435, A	C 205	14.6	69.5	255	7	US-10-437-963-60153	Sequence 60153, A
C 133	14.8	70.5	659	4	US-09-925-065A-39436	Sequence 39436, A	C 206	14.6	69.5	261	7	US-10-437-963-14086	Sequence 14086, A
C 134	14.8	70.5	725	8	US-10-363-345A-27341	Sequence 27341, A	C 207	14.6	69.5	290	9	US-10-450-763-23125	Sequence 23125, A
C 135	14.8	70.5	725	8	US-10-363-345A-27342	Sequence 27342, A	C 208	14.6	69.5	290	9	US-10-450-763-29552	Sequence 29552, A
C 136	14.8	70.5	725	9	US-10-363-483A-27341	Sequence 27341, A	C 209	14.6	69.5	292	7	US-10-424-599-84051	Sequence 84051, A
C 137	14.8	70.5	725	9	US-10-363-483A-27342	Sequence 27342, A	C 210	14.6	69.5	348	7	US-10-437-963-9070	Sequence 9070, App
C 138	14.8	70.5	760	8	US-10-363-345A-5581	Sequence 5581, App	C 211	14.6	69.5	390	8	US-10-826-967A-52	Sequence 52, App
C 139	14.8	70.5	760	8	US-10-363-345A-5582	Sequence 5582, App	C 212	14.6	69.5	393	8	US-10-425-115-145012	Sequence 145012, A
C 140	14.8	70.5	760	9	US-10-363-483A-5581	Sequence 5581, App	C 213	14.6	69.5	401	8	US-10-425-115-35649	Sequence 35649, A
C 141	14.8	70.5	760	9	US-10-363-483A-5582	Sequence 5582, App	C 214	14.6	69.5	403	4	US-09-925-065A-178904	Sequence 178904, A
C 142	14.8	70.5	767	8	US-10-425-115-137787	Sequence 137787, A	C 215	14.6	69.5	403	4	US-09-925-065A-178907	Sequence 178907, A
C 143	14.8	70.5	1698	6	US-10-369-493-43413	Sequence 43413, A	C 216	14.6	69.5	411	7	US-10-437-963-38958	Sequence 38958, A
C 144	14.8	70.5	1710	7	US-10-678-521-27	Sequence 27, Appl	C 217	14.6	69.5	413	3	US-09-960-352-5114	Sequence 5114, App
C 145	14.8	70.5	1710	7	US-10-678-521-33	Sequence 33, Appl	C 218	14.6	69.5	414	4	US-09-925-065A-142437	Sequence 142437, A
C 146	14.8	70.5	1755	6	US-10-369-493-32171	Sequence 32171, A	C 219	14.6	69.5	419	4	US-09-925-065A-610789	Sequence 610789, A
C 147	14.8	70.5	1785	7	US-10-678-521-34	Sequence 34, Appl	C 220	14.6	69.5	460	7	US-10-437-963-59926	Sequence 59926, A
C 148	14.8	70.5	1785	7	US-10-678-521-35	Sequence 35, Appl	C 221	14.6	69.5	488	8	US-10-425-115-14102	Sequence 14102, A
C 149	14.8	70.5	1788	7	US-10-678-521-28	Sequence 28, Appl	C 222	14.6	69.5	489	7	US-10-437-963-40583	Sequence 40583, A
C 150	14.8	70.5	1788	7	US-10-678-521-29	Sequence 29, Appl	C 223	14.6	69.5	494	4	US-09-925-065A-413831	Sequence 413831, A
C 151	14.8	70.5	1841	5	US-10-066-506A-3	Sequence 3, Appl	C 224	14.6	69.5	507	4	US-09-925-065A-442911	Sequence 442911, A
C 152	14.8	70.5	2030	9	US-10-811-353-4	Sequence 4, Appl	C 225	14.6	69.5	507	4	US-09-925-065A-442913	Sequence 442913, A
C 153	14.8	70.5	2039	5	US-10-066-506A-11	Sequence 11, Appl	C 226	14.6	69.5	507	4	US-09-925-065A-442915	Sequence 442915, A
C 154	14.8	70.5	2085	8	US-10-425-115-29119	Sequence 29119, A	C 227	14.6	69.5	514	6	US-10-131-827-8435	Sequence 8435, App
C 155	14.8	70.5	2087	5	US-10-087-192-494	Sequence 494, App	C 228	14.6	69.5	515	4	US-09-925-065A-107916	Sequence 107916, A
C 156	14.8	70.5	2298	3	US-09-337-946A-1	Sequence 1, Appl	C 229	14.6	69.5	516	7	US-10-282-122A-18510	Sequence 18510, A
C 157	14.8	70.5	2298	6	US-10-384-976-1	Sequence 1, Appl	C 230	14.6	69.5	528	4	US-09-925-065A-442912	Sequence 442912, A
C 158	14.8	70.5	2298	7	US-10-226-795-1	Sequence 1, Appl	C 231	14.6	69.5	529	4	US-09-925-065A-437754	Sequence 437754, A
C 159	14.8	70.5	2298	7	US-10-696-633-1	Sequence 1, Appl	C 232	14.6	69.5	531	4	US-09-925-065A-414031	Sequence 414031, A
C 160	14.8	70.5	2658	7	US-10-260-238-547	Sequence 547, App	C 233	14.6	69.5	531	4	US-09-925-065A-414032	Sequence 414032, A
C 161	14.8	70.5	2692	10	US-11-097-143-25478	Sequence 25478, A	C 234	14.6	69.5	533	8	US-10-425-115-111453	Sequence 111453, A
C 162	14.8	70.5	2801	7	US-10-678-521-30	Sequence 30, Appl	C 235	14.6	69.5	535	4	US-09-925-065A-178905	Sequence 178905, A
C 163	14.8	70.5	2801	7	US-10-678-521-32	Sequence 32, Appl	C 236	14.6	69.5	535	4	US-09-925-065A-178906	Sequence 178906, A
C 164	14.8	70.5	2836	7	US-10-678-521-24	Sequence 24, Appl	C 237	14.6	69.5	535	4	US-09-925-065A-178908	Sequence 178908, A
C 165	14.8	70.5	2882	7	US-10-678-521-26	Sequence 26, Appl	C 238	14.6	69.5	535	4	US-09-925-065A-610790	Sequence 610790, A
C 166	14.8	70.5	3170	10	US-11-097-143-21583	Sequence 21583, A	C 239	14.6	69.5	538	4	US-09-925-065A-437756	Sequence 437756, A
C 167	14.8	70.5	3170	10	US-11-097-143-21583	Sequence 21583, A	C 240	14.6	69.5	538	4	US-09-925-065A-437757	Sequence 437757, A
C 168	14.8	70.5	3374	7	US-10-437-963-37453	Sequence 37453, A	C 241	14.6	69.5	539	4	US-09-925-065A-128693	Sequence 128693, A
C 169	14.8	70.5	3663	10	US-11-097-143-23542	Sequence 23542, A	C 242	14.6	69.5	539	4	US-09-925-065A-128695	Sequence 128695, A

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c 244	14.6	69.5	539	4	US-09-925-065A-409707	Sequence 409707,	c 317	14.6	69.5	1154	7	US-10-425-114-22837	Sequence 22837, A
c 245	14.6	69.5	539	4	US-09-925-065A-409708	Sequence 409708,	c 318	14.6	69.5	1278	7	US-10-425-114-15402	Sequence 15402, A
c 246	14.6	69.5	539	4	US-09-925-065A-409709	Sequence 409709,	c 319	14.6	69.5	1335	9	US-10-450-763-2550	Sequence 2550, Ap
c 247	14.6	69.5	539	7	US-10-437-963-15625	Sequence 15625, A	c 320	14.6	69.5	1336	8	US-10-425-115-9350	Sequence 9350, Ap
c 248	14.6	69.5	541	4	US-09-925-065A-590386	Sequence 590386,	c 321	14.6	69.5	1344	6	US-10-369-493-26451	Sequence 26451, A
c 249	14.6	69.5	542	4	US-09-925-065A-465114	Sequence 465114,	c 322	14.6	69.5	1344	6	US-10-369-493-35496	Sequence 35496, A
c 250	14.6	69.5	542	4	US-09-925-065A-465116	Sequence 465116,	c 323	14.6	69.5	1394	7	US-10-188-832-71	Sequence 71, Appl
c 251	14.6	69.5	546	4	US-09-925-065A-454939	Sequence 454939,	c 324	14.6	69.5	1398	10	US-11-097-143-42236	Sequence 42236, A
c 252	14.6	69.5	546	4	US-09-925-065A-454940	Sequence 454940,	c 325	14.6	69.5	1404	4	US-09-925-065A-708488	Sequence 708488,
c 253	14.6	69.5	552	4	US-09-925-065A-214116	Sequence 214116,	c 326	14.6	69.5	1404	4	US-09-925-065A-708489	Sequence 708489,
c 254	14.6	69.5	553	4	US-09-925-065A-655251	Sequence 655251,	c 327	14.6	69.5	1458	9	US-10-450-763-22935	Sequence 22935, A
c 255	14.6	69.5	554	4	US-09-925-065A-240314	Sequence 240314,	c 328	14.6	69.5	1488	9	US-10-450-763-23134	Sequence 23134, A
c 256	14.6	69.5	554	4	US-09-925-065A-446770	Sequence 446770,	c 329	14.6	69.5	1512	7	US-10-425-114-20910	Sequence 20910, A
c 257	14.6	69.5	555	4	US-09-925-065A-610791	Sequence 610791,	c 330	14.6	69.5	1533	8	US-10-425-115-76440	Sequence 76440, A
c 258	14.6	69.5	583	5	US-10-027-632-220855	Sequence 220855,	c 331	14.6	69.5	1533	6	US-10-425-115-173112	Sequence 173112,
c 259	14.6	69.5	583	5	US-10-027-632-220856	Sequence 220856,	c 332	14.6	69.5	1553	8	US-10-369-493-35524	Sequence 35524, A
c 260	14.6	69.5	583	6	US-10-027-632-220855	Sequence 220855,	c 333	14.6	69.5	1585	8	US-10-425-115-143865	Sequence 143865,
c 261	14.6	69.5	583	6	US-10-027-632-220856	Sequence 220856,	c 334	14.6	69.5	1614	8	US-10-425-115-18368	Sequence 18368, A
c 262	14.6	69.5	587	9	US-10-972-079-15831	Sequence 15831, A	c 335	14.6	69.5	1653	10	US-11-097-143-35774	Sequence 35774, A
c 263	14.6	69.5	593	4	US-09-925-065A-348118	Sequence 348118,	c 336	14.6	69.5	1695	7	US-10-425-114-16545	Sequence 16545, A
c 264	14.6	69.5	597	4	US-09-925-065A-590385	Sequence 590385,	c 337	14.6	69.5	1714	7	US-10-307-817-133	Sequence 133, App
c 265	14.6	69.5	597	4	US-09-925-065A-590387	Sequence 590387,	c 338	14.6	69.5	1745	7	US-10-343-593-21	Sequence 21, Appl
c 266	14.6	69.5	597	6	US-10-287-274-229	Sequence 229,	c 339	14.6	69.5	1780	7	US-10-425-114-3367	Sequence 3367, Ap
c 267	14.6	69.5	597	7	US-10-282-122A-6631	Sequence 6631, App	c 340	14.6	69.5	1780	9	US-10-450-763-23136	Sequence 23136, A
c 268	14.6	69.5	599	9	US-10-972-079-139053	Sequence 139053, A	c 341	14.6	69.5	1869	9	US-10-450-763-8245	Sequence 8245, Ap
c 269	14.6	69.5	600	9	US-10-972-079-13868	Sequence 13868, A	c 342	14.6	69.5	1869	9	US-10-450-763-25626	Sequence 25626, A
c 270	14.6	69.5	600	10	US-11-060-756-3715	Sequence 3715, Ap	c 343	14.6	69.5	1870	7	US-10-381-898-28	Sequence 28, Appl
c 271	14.6	69.5	600	10	US-11-060-756-7987	Sequence 7987, Ap	c 344	14.6	69.5	1894	3	US-09-861-696-66	Sequence 66, Appl
c 272	14.6	69.5	611	4	US-09-925-065A-414034	Sequence 414034, A	c 345	14.6	69.5	1894	3	US-09-861-699A-66	Sequence 66, Appl
c 273	14.6	69.5	619	9	US-10-450-763-29560	Sequence 29560, A	c 346	14.6	69.5	1900	8	US-10-425-115-142009	Sequence 142009,
c 274	14.6	69.5	625	4	US-09-925-065A-125991	Sequence 125991,	c 347	14.6	69.5	1914	9	US-10-450-763-9394	Sequence 9394, Ap
c 275	14.6	69.5	625	4	US-09-925-065A-125992	Sequence 125992,	c 348	14.6	69.5	2000	7	US-10-260-238-2043	Sequence 2043, Ap
c 276	14.6	69.5	634	6	US-10-027-632-164432	Sequence 164432,	c 349	14.6	69.5	2019	5	US-10-175-523-2	Sequence 2, Appli
c 277	14.6	69.5	634	6	US-10-027-632-164432	Sequence 164432,	c 350	14.6	69.5	2019	10	US-11-099-266-2	Sequence 2, Appli
c 278	14.6	69.5	635	4	US-09-925-065A-590383	Sequence 590383,	c 351	14.6	69.5	2035	8	US-10-472-260-99	Sequence 99, Appl
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c 280	14.6	69.5	642	4	US-09-925-065A-308902	Sequence 308902,	c 353	14.6	69.5	2133	8	US-10-925-095-588	Sequence 588, App
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c 282	14.6	69.5	646	5	US-10-027-632-255664	Sequence 255664,	c 355	14.6	69.5	2148	8	US-10-472-260-101	Sequence 101, App
c 283	14.6	69.5	646	6	US-10-027-632-255664	Sequence 255664,	c 356	14.6	69.5	2171	7	US-10-437-963-73675	Sequence 73675, A
c 284	14.6	69.5	649	4	US-09-925-065A-862665	Sequence 862665,	c 357	14.6	69.5	2234	9	US-10-450-763-22936	Sequence 22936, A
c 285	14.6	69.5	649	4	US-09-925-065A-897665	Sequence 897665,	c 358	14.6	69.5	2240	9	US-10-795-159-2281	Sequence 288, App
c 286	14.6	69.5	674	3	US-09-864-408A-625	Sequence 625, App	c 359	14.6	69.5	2381	8	US-10-425-115-123127	Sequence 123127,
c 287	14.6	69.5	675	9	US-10-481-032A-1182	Sequence 1182, A	c 360	14.6	69.5	2432	7	US-10-776-989-1	Sequence 1, Appli
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C 423	14.4	68.6	6149	3	US-09-764-887-437	Sequence 437, App	C 496	14.2	67.6	936	8	US-10-653-047-693	Sequence 693, App
C 424	14.4	68.6	6149	5	US-10-073-961-436	Sequence 436, App	C 497	14.2	67.6	948	9	US-10-450-763-29308	Sequence 29308, A
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C 454	14.2	67.6	506	7	US-10-424-599-60126	Sequence 60126, A							
C 455	14.2	67.6	529	4	US-09-925-065A-437755	Sequence 437755, A							
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C 459	14.2	67.6	550	4	US-09-925-065A-354214	Sequence 354214, A							
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ALIGNMENTS

RESULT 1

US-10-805-973-1

Sequence 1, Application US/10805973

Publication No. US20050208506A1

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APPLICANT: Zhao, Chengyan

APPLICANT: Ascenzi, Robert

APPLICANT: Singh, Bijay K.

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Best Local Similarity 100.0%; Pred. No. 0.34;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCGCCGCAATATGCTATCCAG 21

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c 98	13.6	64.8	1935	7	US-10-750-623-42381	Sequence 42381, A	171	13.4	63.8	810	7	US-10-467-657-1787	Sequence 1787, Ap
c 99	13.6	64.8	2132	7	US-10-467-657-6199	Sequence 6199, Ap	c 172	13.4	63.8	828	7	US-10-750-185-34031	Sequence 34031, A
c 100	13.6	64.8	2238	7	US-10-467-657-1935	Sequence 1935, Ap	c 173	13.4	63.8	828	7	US-10-750-623-34031	Sequence 34031, A
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c 103	13.6	64.8	3494	11	US-11-136-527-1968	Sequence 1968, Ap	c 176	13.4	63.8	946	7	US-10-750-185-37532	Sequence 37532, A
c 104	13.6	64.8	3649	11	US-11-000-688-216	Sequence 216, App	c 177	13.4	63.8	946	7	US-10-750-623-37532	Sequence 37532, A
c 105	13.6	64.8	3713	7	US-10-750-185-38292	Sequence 38292, A	c 178	13.4	63.8	960	7	US-10-750-185-41891	Sequence 41891, A
c 106	13.6	64.8	3713	7	US-10-750-623-38292	Sequence 38292, A	c 179	13.4	63.8	960	7	US-10-750-623-41891	Sequence 41891, A
c 107	13.6	64.8	3964	8	US-11-198-728-21	Sequence 21, Appl	c 180	13.4	63.8	969	7	US-10-467-657-3757	Sequence 3757, Ap
c 108	13.6	64.8	3964	11	US-11-076-733-24	Sequence 24, Appl	c 181	13.4	63.8	1023	7	US-10-467-657-125	Sequence 125, App
c 109	13.6	64.8	4276	11	US-11-136-527-4010	Sequence 4010, Ap	c 182	13.4	63.8	1023	7	US-10-467-657-3207	Sequence 3207, Ap
c 110	13.6	64.8	8336	11	US-11-076-733-29	Sequence 29, Appl	c 183	13.4	63.8	1033	7	US-10-750-185-55646	Sequence 55646, A
c 111	13.6	64.8	8716	11	US-11-076-733-38	Sequence 38, Appl	c 184	13.4	63.8	1033	7	US-10-750-623-55646	Sequence 55646, A
c 112	13.6	64.8	8783	11	US-11-076-733-49	Sequence 49, Appl	c 185	13.4	63.8	1077	7	US-10-750-185-61131	Sequence 61131, A
c 113	13.6	64.8	8906	11	US-11-076-733-44	Sequence 44, Appl	c 186	13.4	63.8	1077	7	US-10-750-623-61131	Sequence 61131, A
c 114	13.6	64.8	8948	11	US-11-076-733-32	Sequence 32, Appl	c 187	13.4	63.8	1145	7	US-10-750-185-59986	Sequence 59986, A
c 115	13.6	64.8	8966	8	US-11-198-728-20	Sequence 20, Appl	c 188	13.4	63.8	1145	7	US-10-750-623-59986	Sequence 59986, A
c 116	13.6	64.8	8966	11	US-11-076-733-87	Sequence 87, Appl	c 189	13.4	63.8	1224	7	US-10-750-185-49343	Sequence 49343, A
c 117	13.6	64.8	9231	11	US-11-076-733-93	Sequence 93, Appl	c 190	13.4	63.8	1224	7	US-10-750-623-49343	Sequence 49343, A
c 118	13.6	64.8	9242	8	US-11-198-728-26	Sequence 26, Appl	c 191	13.4	63.8	1286	7	US-10-750-185-48861	Sequence 48861, A
c 119	13.6	64.8	9358	11	US-11-076-733-67	Sequence 67, Appl	c 192	13.4	63.8	1286	7	US-10-750-623-48861	Sequence 48861, A
c 120	13.6	64.8	9746	11	US-11-076-733-54	Sequence 54, Appl	c 193	13.4	63.8	1300	7	US-10-750-185-25870	Sequence 25870, A
c 121	13.6	64.8	9861	8	US-11-198-728-32	Sequence 32, Appl	c 194	13.4	63.8	1300	7	US-10-750-623-25870	Sequence 25870, A
c 122	13.6	64.8	9861	8	US-11-198-728-35	Sequence 35, Appl	c 195	13.4	63.8	1310	7	US-10-750-185-43712	Sequence 43712, A
c 123	13.6	64.8	9874	11	US-11-076-733-99	Sequence 99, Appl	c 196	13.4	63.8	1310	7	US-10-750-623-43712	Sequence 43712, A
c 124	13.6	64.8	9997	11	US-11-076-733-78	Sequence 78, Appl	c 197	13.4	63.8	1364	7	US-10-750-185-53617	Sequence 53617, A
c 125	13.6	64.8	98862	11	US-11-121-086-76	Sequence 76, Appl	c 198	13.4	63.8	1364	7	US-10-750-623-53617	Sequence 53617, A
c 126	13.6	64.8	105950	7	US-10-995-561-13235	Sequence 13235, A	c 199	13.4	63.8	1409	7	US-10-750-185-61505	Sequence 61505, A
c 127	13.6	64.8	153142	11	US-11-121-086-27	Sequence 27, Appl	c 200	13.4	63.8	1409	7	US-10-750-623-61505	Sequence 61505, A
c 128	13.6	64.8	207835	11	US-11-121-086-39	Sequence 39, Appl	c 201	13.4	63.8	1412	7	US-10-750-185-26414	Sequence 26414, A
c 129	13.6	64.8	207835	11	US-11-121-086-40	Sequence 40, Appl	c 202	13.4	63.8	1412	7	US-10-750-623-26414	Sequence 26414, A
c 130	13.6	64.8	220895	7	US-10-775-169-88	Sequence 88, Appl	c 203	13.4	63.8	1485	7	US-10-750-185-61718	Sequence 61718, A
c 131	13.4	63.8	19	9	US-11-101-244-31265	Sequence 31265, A	c 204	13.4	63.8	1485	7	US-10-750-623-61718	Sequence 61718, A
c 132	13.4	63.8	19	9	US-11-101-244-143743	Sequence 143743, A	c 205	13.4	63.8	1493	7	US-10-750-185-44202	Sequence 44202, A
c 133	13.4	63.8	19	9	US-11-101-244-831756	Sequence 831756, A	c 206	13.4	63.8	1493	7	US-10-750-623-44202	Sequence 44202, A
c 134	13.4	63.8	19	10	US-11-083-784-31265	Sequence 31265, A	c 207	13.4	63.8	1522	7	US-10-750-185-57458	Sequence 57458, A
c 135	13.4	63.8	19	10	US-11-083-784-143743	Sequence 143743, A	c 208	13.4	63.8	1522	7	US-10-750-623-57458	Sequence 57458, A
c 136	13.4	63.8	19	10	US-11-083-784-831756	Sequence 831756, A	c 209	13.4	63.8	1529	7	US-10-750-185-61066	Sequence 61066, A
c 137	13.4	63.8	201	7	US-10-995-561-10767	Sequence 10767, A	c 210	13.4	63.8	1529	7	US-10-750-623-61066	Sequence 61066, A
c 138	13.4	63.8	201	7	US-10-995-561-10768	Sequence 10768, A	c 211	13.4	63.8	1539	7	US-10-750-185-49558	Sequence 49558, A
c 139	13.4	63.8	201	7	US-10-995-561-10790	Sequence 10790, A	c 212	13.4	63.8	1539	7	US-10-750-623-49558	Sequence 49558, A
c 140	13.4	63.8	201	7	US-10-995-561-10791	Sequence 10791, A	c 213	13.4	63.8	1562	7	US-10-750-185-42970	Sequence 42970, A
c 141	13.4	63.8	201	7	US-10-995-561-10814	Sequence 10814, A	c 214	13.4	63.8	1562	7	US-10-750-623-42970	Sequence 42970, A
c 142	13.4	63.8	201	7	US-10-995-561-10815	Sequence 10815, A	c 215	13.4	63.8	1603	7	US-10-750-185-30955	Sequence 30955, A
c 143	13.4	63.8	201	7	US-10-995-561-10839	Sequence 10839, A	c 216	13.4	63.8	1603	7	US-10-750-623-30955	Sequence 30955, A
c 144	13.4	63.8	201	7	US-10-995-561-10840	Sequence 10840, A	c 217	13.4	63.8	1631	7	US-10-750-185-52476	Sequence 52476, A
c 145	13.4	63.8	201	7	US-10-995-561-28644	Sequence 28644, A	c 218	13.4	63.8	1631	7	US-10-750-623-52476	Sequence 52476, A
c 146	13.4	63.8	201	7	US-10-995-561-45698	Sequence 45698, A	c 219	13.4	63.8	1652	7	US-10-750-185-45369	Sequence 45369, A
c 147	13.4	63.8	201	7	US-10-995-561-50703	Sequence 50703, A	c 220	13.4	63.8	1652	7	US-10-750-623-45369	Sequence 45369, A
c 148	13.4	63.8	201	7	US-10-995-561-50707	Sequence 50707, A	c 221	13.4	63.8	1658	7	US-10-750-185-46808	Sequence 46808, A
c 149	13.4	63.8	201	7	US-10-995-561-50710	Sequence 50710, A	c 222	13.4	63.8	1658	7	US-10-750-623-46808	Sequence 46808, A
c 150	13.4	63.8	201	7	US-10-995-561-50712	Sequence 50712, A	c 223	13.4	63.8	1679	7	US-10-750-185-59602	Sequence 59602, A
c 151	13.4	63.8	201	7	US-10-995-561-50716	Sequence 50716, A	c 224	13.4	63.8	1679	7	US-10-750-623-59602	Sequence 59602, A
c 152	13.4	63.8	201	7	US-10-995-561-50718	Sequence 50718, A	c 225	13.4	63.8	1681	7	US-10-750-185-58919	Sequence 58919, A
c 153	13.4	63.8	201	7	US-10-995-561-50720	Sequence 50720, A	c 226	13.4	63.8	1681	7	US-10-750-623-58919	Sequence 58919, A
c 154	13.4	63.8	201	7	US-10-995-561-50721	Sequence 50721, A	c 227	13.4	63.8	1706	7	US-10-750-185-35516	Sequence 35516, A
c 155	13.4	63.8	201	7	US-10-995-561-50722	Sequence 50722, A	c 228	13.4	63.8	1706	7	US-10-750-623-35516	Sequence 35516, A
c 156	13.4	63.8	201	7	US-10-995-561-50723	Sequence 50723, A	c 229	13.4	63.8	1767	7	US-10-750-185-41562	Sequence 41562, A
c 157	13.4	63.8	201	7	US-10-995-561-50738	Sequence 50738, A	c 230	13.4	63.8	1767	7	US-10-750-623-41562	Sequence 41562, A
c 158	13.4	63.8	201	7	US-10-995-561-50740	Sequence 50740, A	c 231	13.4	63.8	1784	7	US-10-750-185-63796	Sequence 63796, A
c 159	13.4	63.8	201	7	US-10-995-561-57517	Sequence 57517, A	c 232	13.4	63.8	1784	7	US-10-750-623-63796	Sequence 63796, A
c 160	13.4	63.8	201	7	US-10-995-561-74473	Sequence 74473, A	c 233	13.4	63.8	1798	7	US-10-750-185-43915	Sequence 43915, A
c 161	13.4	63.8	201	7	US-10-995-561-75257	Sequence 75257, A	c 234	13.4	63.8	1798	7	US-10-750-623-43915	Sequence 43915, A
c 162	13.4	63.8	537	7	US-10-467-657-1121	Sequence 121, App	c 235	13.4	63.8	1839	7	US-10-750-185-42842	Sequence 42842, A
c 163	13.4	63.8	537	7	US-10-467-657-1229	Sequence 1229, Ap	c 236	13.4	63.8	1839	7	US-10-750-623-42842	Sequence 42842, A
c 164	13.4	63.8	537	7	US-10-467-657-3137	Sequence 3137, Ap	c 237	13.4	63.8	1847	7	US-10-750-185-47707	Sequence 47707, A
c 165	13.4	63.8	537	7	US-10-467-657-3751	Sequence 3751, Ap	c 238	13.4	63.8	1847	7	US-10-750-623-47707	Sequence 47707, A
c 166	13.4	63.8	727	11	US-11-024-959-147	Sequence 147, App	c 239	13.4	63.8	1854	7	US-10-750-185-49426	Sequence 49426, A
c 167	13.4	63.8	755	7	US-10-750-185-30479	Sequence 30479, A	c 240	13.4	63.8	1854	7	US-10-750-623-49426	Sequence 49426, A



C 241	13.4	63.8	1904	7	US-10-750-185-36680	Sequence 36680, A	314	13.4	63.8	66224	11	US-11-124-367A-5066	Sequence 5066, Ap
C 242	13.4	63.8	1904	7	US-10-750-623-36680	Sequence 36680, A	C 315	13.4	63.8	76559	7	US-10-995-561-13288	Sequence 13288, A
C 243	13.4	63.8	1909	7	US-10-750-185-47290	Sequence 47290, A	C 316	13.4	63.8	94510	7	US-10-995-561-13332	Sequence 13332, A
C 244	13.4	63.8	1909	7	US-10-750-623-47290	Sequence 47290, A	C 317	13.4	63.8	165156	7	US-10-995-561-13304	Sequence 13304, A
C 245	13.4	63.8	1995	7	US-10-750-185-39691	Sequence 39691, A	C 318	13.4	63.8	222094	7	US-10-995-561-13244	Sequence 13244, A
C 246	13.4	63.8	1995	7	US-10-750-623-39691	Sequence 39691, A	C 319	13.4	63.8	1691140	11	US-11-091-018-1	Sequence 1, Appli
C 247	13.4	63.8	2004	7	US-10-750-185-36956	Sequence 36956, A	C 320	13.2	62.9	25	11	US-11-121-849-14845	Sequence 14845, A
C 248	13.4	63.8	2004	7	US-10-750-623-36956	Sequence 36956, A	C 321	13.2	62.9	50	11	US-11-175-859-53577	Sequence 53577, A
C 249	13.4	63.8	2015	7	US-10-750-185-29926	Sequence 29926, A	C 322	13.2	62.9	243	7	US-10-467-657-4703	Sequence 4703, Ap
C 250	13.4	63.8	2015	7	US-10-750-623-29926	Sequence 29926, A	C 323	13.2	62.9	246	7	US-10-467-657-4705	Sequence 4705, Ap
C 251	13.4	63.8	2049	7	US-10-750-185-63383	Sequence 63383, A	C 324	13.2	62.9	528	11	US-11-128-061-2807	Sequence 2807, Ap
C 252	13.4	63.8	2049	7	US-10-750-623-63383	Sequence 63383, A	C 325	13.2	62.9	528	11	US-11-128-061-6449	Sequence 6449, Ap
C 253	13.4	63.8	2122	7	US-10-750-185-36193	Sequence 36193, A	C 326	13.2	62.9	528	11	US-11-128-049-2807	Sequence 2807, Ap
C 254	13.4	63.8	2122	7	US-10-750-623-36193	Sequence 36193, A	C 327	13.2	62.9	528	11	US-11-128-049-6449	Sequence 6449, Ap
C 255	13.4	63.8	2177	7	US-10-750-185-58800	Sequence 58800, A	C 328	13.2	62.9	532	7	US-10-750-185-3370	Sequence 3370, Ap
C 256	13.4	63.8	2177	7	US-10-750-623-58800	Sequence 58800, A	C 329	13.2	62.9	532	7	US-10-750-623-3370	Sequence 3370, Ap
C 257	13.4	63.8	2325	7	US-10-750-185-58812	Sequence 58812, A	C 330	13.2	62.9	605	6	US-10-349-331-379	Sequence 379, App
C 258	13.4	63.8	2325	7	US-10-750-623-58812	Sequence 58812, A	C 331	13.2	62.9	804	7	US-10-467-657-4063	Sequence 4063, Ap
C 259	13.4	63.8	2335	7	US-10-750-185-61057	Sequence 61057, A	C 332	13.2	62.9	832	7	US-10-750-185-58499	Sequence 58499, A
C 260	13.4	63.8	2335	7	US-10-750-623-61057	Sequence 61057, A	C 333	13.2	62.9	832	7	US-10-750-623-58499	Sequence 58499, A
C 261	13.4	63.8	2374	7	US-10-995-561-405	Sequence 405, App	C 334	13.2	62.9	937	7	US-10-750-185-44905	Sequence 44905, A
C 262	13.4	63.8	2374	7	US-10-453-372-649	Sequence 649, App	C 335	13.2	62.9	937	7	US-10-750-623-44905	Sequence 44905, A
C 263	13.4	63.8	2489	7	US-10-750-185-53608	Sequence 53608, A	C 336	13.2	62.9	943	7	US-10-750-185-54478	Sequence 54478, A
C 264	13.4	63.8	2489	7	US-10-750-623-53608	Sequence 53608, A	C 337	13.2	62.9	943	7	US-10-750-185-54478	Sequence 54478, A
C 265	13.4	63.8	2537	7	US-10-453-372-643	Sequence 643, App	C 338	13.2	62.9	1031	7	US-10-750-185-57459	Sequence 57459, A
C 266	13.4	63.8	2537	7	US-10-453-372-647	Sequence 647, App	C 339	13.2	62.9	1031	7	US-10-750-185-57459	Sequence 57459, A
C 267	13.4	63.8	2609	7	US-10-750-185-58053	Sequence 58053, A	C 340	13.2	62.9	1109	7	US-10-750-185-53635	Sequence 53635, A
C 268	13.4	63.8	2609	7	US-10-750-623-58053	Sequence 58053, A	C 341	13.2	62.9	1109	7	US-10-750-623-53635	Sequence 53635, A
C 269	13.4	63.8	2623	7	US-10-453-372-657	Sequence 657, App	C 342	13.2	62.9	1236	11	US-11-074-176-23	Sequence 23, App
C 270	13.4	63.8	2650	7	US-10-750-185-31090	Sequence 31090, A	C 343	13.2	62.9	1304	6	US-10-893-483-179	Sequence 179, Appl
C 271	13.4	63.8	2650	7	US-10-750-623-31090	Sequence 31090, A	C 344	13.2	62.9	1400	11	US-11-136-527-6575	Sequence 6575, Ap
C 272	13.4	63.8	2656	7	US-10-453-372-655	Sequence 655, App	C 345	13.2	62.9	1661	7	US-10-750-185-56735	Sequence 56735, A
C 273	13.4	63.8	2694	7	US-10-750-185-42985	Sequence 42985, A	C 346	13.2	62.9	1661	7	US-10-750-623-56735	Sequence 56735, A
C 274	13.4	63.8	2694	7	US-10-750-623-42985	Sequence 42985, A	C 347	13.2	62.9	1664	7	US-10-750-185-54660	Sequence 54660, A
C 275	13.4	63.8	2720	11	US-11-194-246-379	Sequence 379, App	C 348	13.2	62.9	1664	7	US-10-750-185-54660	Sequence 54660, A
C 276	13.4	63.8	2822	7	US-10-750-185-60923	Sequence 60923, A	C 349	13.2	62.9	1806	7	US-10-750-185-38216	Sequence 38216, A
C 277	13.4	63.8	2822	7	US-10-750-623-60923	Sequence 60923, A	C 350	13.2	62.9	1806	7	US-10-750-185-49240	Sequence 49240, A
C 278	13.4	63.8	2909	7	US-10-750-185-60514	Sequence 60514, A	C 351	13.2	62.9	1806	7	US-10-750-623-38216	Sequence 38216, A
C 279	13.4	63.8	2909	7	US-10-750-623-60514	Sequence 60514, A	C 352	13.2	62.9	1806	7	US-10-750-623-49240	Sequence 49240, A
C 280	13.4	63.8	2938	7	US-10-750-185-54310	Sequence 54310, A	C 353	13.2	62.9	1848	11	US-11-136-527-2479	Sequence 2479, Ap
C 281	13.4	63.8	2938	7	US-10-750-623-54310	Sequence 54310, A	C 354	13.2	62.9	1848	11	US-11-136-527-2479	Sequence 2479, Ap
C 282	13.4	63.8	3039	7	US-10-453-372-645	Sequence 645, App	C 355	13.2	62.9	1870	7	US-10-750-185-48697	Sequence 48697, A
C 283	13.4	63.8	3275	7	US-10-750-185-38427	Sequence 38427, A	C 356	13.2	62.9	1873	7	US-10-750-623-48697	Sequence 48697, A
C 284	13.4	63.8	3275	7	US-10-750-623-38427	Sequence 38427, A	C 357	13.2	62.9	1873	11	US-11-051-568-24	Sequence 24, Appl
C 285	13.4	63.8	3286	7	US-10-750-185-45845	Sequence 45845, A	C 358	13.2	62.9	1873	11	US-11-026-555-18	Sequence 18, Appl
C 286	13.4	63.8	3286	7	US-10-750-623-45845	Sequence 45845, A	C 359	13.2	62.9	1873	11	US-11-024-959-185	Sequence 185, App
C 287	13.4	63.8	3694	7	US-10-750-185-31037	Sequence 31037, A	C 360	13.2	62.9	2389	11	US-11-128-061-1136	Sequence 1136, Ap
C 288	13.4	63.8	3694	7	US-10-750-623-31037	Sequence 31037, A	C 361	13.2	62.9	2389	11	US-11-128-049-1136	Sequence 1136, Ap
C 289	13.4	63.8	4075	7	US-10-750-185-57933	Sequence 57933, A	C 362	13.2	62.9	2985	7	US-10-750-185-33844	Sequence 33844, A
C 290	13.4	63.8	4075	7	US-10-750-623-57933	Sequence 57933, A	C 363	13.2	62.9	2985	7	US-10-750-623-33844	Sequence 33844, A
C 291	13.4	63.8	4143	7	US-10-995-561-407	Sequence 407, App	C 364	13.2	62.9	3015	11	US-11-183-136-39	Sequence 39, Appl
C 292	13.4	63.8	4150	7	US-10-453-372-651	Sequence 651, App	C 365	13.2	62.9	3147	7	US-10-392-234A-19	Sequence 19, Appl
C 293	13.4	63.8	4180	7	US-10-453-372-653	Sequence 653, App	C 366	13.2	62.9	3147	11	US-11-024-959-64	Sequence 64, Appl
C 294	13.4	63.8	4200	7	US-10-750-185-53206	Sequence 53206, A	C 367	13.2	62.9	3478	11	US-11-024-959-64	Sequence 7, Appli
C 295	13.4	63.8	4200	7	US-10-750-623-53206	Sequence 53206, A	C 368	13.2	62.9	5231	7	US-10-909-125-822	Sequence 822, App
C 296	13.4	63.8	4294	7	US-10-453-372-637	Sequence 637, App	C 369	13.2	62.9	5455	7	US-10-240-708-34	Sequence 34, Appl
C 297	13.4	63.8	4294	7	US-10-453-372-661	Sequence 661, App	C 370	13.2	62.9	7003	11	US-11-038-933-1	Sequence 1, Appli
C 298	13.4	63.8	4294	7	US-10-453-372-663	Sequence 663, App	C 371	13.2	62.9	9474	11	US-11-052-554A-526	Sequence 526, App
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## ALIGNMENTS

## RESULT 1

US-11-152-903-1  
; Sequence 1, Application US/11152903  
; Publication No. US20060010514A1  
; GENERAL INFORMATION:  
; APPLICANT: Birk, Iwona  
; APPLICANT: Singh, Bijay K  
; APPLICANT: Parker, Gregory B  
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING MATURE AHASL PROTEINS FOR CREATING  
; FILE REFERENCE: 038867/232334  
; CURRENT APPLICATION NUMBER: US/11/152,903  
; CURRENT FILING DATE: 2005-06-15  
; PRIOR APPLICATION NUMBER: 60/580,021  
; PRIOR FILING DATE: 2004-06-16  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1  
; LENGTH: 1788  
; TYPE: DNA  
; ORGANISM: Triticum aestivum  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(1788)  
US-11-152-903-1

GenCore version 5.1.7  
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Title: US-10-805-973-12

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Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

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15: gb\_pl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

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c 102	31.4	74.8	393	10	G71922	G71922 A64996434FM	175	26.6	63.3	2025	6	CQ815039	CQ815039 Sequence
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104	31.4	74.8	1901	15	BT016825	BT016825 Zea mays	177	26.6	63.3	2083	6	CQ814637	CQ814637 Sequence
105	31.4	74.8	1969	6	I33633	I33633 Sequence 2	178	26.6	63.3	2116	6	CQ814636	CQ814636 Sequence
106	31.4	74.8	1969	6	I33634	I33634 Sequence 3	179	26.6	63.3	2160	6	CQ815040	CQ815040 Sequence
107	31.4	74.8	1969	6	AR227737	AR227737 Sequence	180	26.6	63.3	2224	15	AY428947	AY428947 Canelina
108	31.4	74.8	1969	6	AR227738	AR227738 Sequence	181	26.6	63.3	2236	15	AY428879	AY428879 Canelina
109	31.4	74.8	2089	6	A19545	A19545 Synthetic n	182	26.6	63.3	2236	15	AY428880	AY428880 Canelina
110	31.4	74.8	2141	6	A19547	A19547 Synthetic n	183	26.6	63.3	2263	15	AY042819	AY042819 Arabidops
111	31.4	74.8	2544	15	ZMAHAS109	X63554 Z.mays gene	184	26.6	63.3	2359	6	CQ815054	CQ815054 Sequence
112	31.4	74.8	2545	6	I07769	I07769 Sequence 25	185	26.6	63.3	2378	6	CQ815053	CQ815053 Sequence
113	31.4	74.8	2664	15	ZMAHAS108	X63553 Z.mays gene	186	26.6	63.3	3386	15	BNASHYII	Z11526 B.napus gen
114	31.4	74.8	2967	6	I07767	I07767 Sequence 23	187	26.6	63.3	4724	15	BNASHYII	Z11524 B.napus gen
115	30.8	73.3	362	15	AY124583S2	AY124583 Amaranthu	c 188	26.6	63.3	96679	15	ATT8P19	AL133315 Arabidops
116	30.8	73.3	362	15	AY124587	AY124587 Amaranthu	189	26	61.9	2454	15	AF022816	AF022816 Chlamydom
c 117	30.8	73.3	110000	15	AP008210_191	Continuation (192	190	26	61.9	7403	15	AF047459	AF047459 Chlamydom
c 118	30.8	73.3	151936	15	OSJN00244	Continuation (192	191	25.6	61.0	1230	15	RRA344995	AF044995 Raphanus
c 119	29.8	71.0	121	6	AX323911	AX323911 Sequence	192	25	59.5	121	6	AX324015	AX324015 Sequence
c 120	29.8	71.0	121	6	AX323912	AX323912 Sequence	c 193	25	59.5	121	6	AX324016	AX324016 Sequence
c 121	29.8	71.0	121	6	AX323987	AX323987 Sequence	194	25	59.5	1758	15	RRA344988	AX344988 Raphanus
c 122	29.8	71.0	121	6	AX323988	AX323988 Sequence	195	25	59.5	1758	15	RRA344989	AX344989 Raphanus
c 123	29.8	71.0	121	6	AX324055	AX324055 Sequence	196	25	59.5	1758	15	RRA344990	AX344990 Raphanus
c 124	29.8	71.0	121	6	AX324056	AX324056 Sequence	197	25	59.5	1758	15	RRA344991	AX344991 Raphanus
c 125	29.8	71.0	121	6	AX324143	AX324143 Sequence	198	25	59.5	2116	6	CQ814638	CQ814638 Sequence
c 126	29.8	71.0	121	6	AX324144	AX324144 Sequence	199	25	59.5	2156	6	I44036	I44036 Sequence 1
c 127	29.8	71.0	1112	15	BT019211	BT019211 Zea mays	200	25	59.5	2156	6	I44037	I44037 Sequence 3
c 128	28.2	67.1	121	6	AX323915	AX323915 Sequence	201	25	59.5	2156	15	XSU16279	U16279 Xanthium sp
c 129	28.2	67.1	121	6	AX323916	AX323916 Sequence	202	25	59.5	2156	15	XSU16280	U16280 Xanthium sp
c 130	28.2	67.1	121	6	AX324043	AX324043 Sequence	203	25	59.5	2357	15	PRH577316	AY77316 Papaver r
c 131	28.2	67.1	121	6	AX324044	AX324044 Sequence	204	25	59.5	2461	6	CQ814545	CQ814545 Sequence
c 132	28.2	67.1	121	6	AX324071	AX324071 Sequence	205	25	59.5	2461	15	NTALSURB	AX927097 Sequence
c 133	28.2	67.1	121	6	AX324072	AX324072 Sequence	206	24.6	58.6	253	6	AX927097	AX927097 Sequence
c 134	28.2	67.1	121	6	AX324083	AX324083 Sequence	c 207	24.6	58.6	253	15	AJ718386	AJ718386 Nicotiana
c 135	28.2	67.1	121	6	AX324084	AX324084 Sequence	208	23.6	56.2	68	6	AR287180	AR287180 Sequence
c 136	28.2	67.1	121	6	AX324099	AX324099 Sequence	c 209	23.6	56.2	1095	6	AX300472	AX300472 Sequence
c 137	28.2	67.1	121	6	AX324100	AX324100 Sequence	210	23.6	56.2	1985	6	AX300491	AX300491 Sequence
c 138	28.2	67.1	1703	15	AF308648	AF308648 Solanum p	211	23.4	55.7	480	6	AX006318	AX006318 Sequence
c 139	28.2	67.1	1703	15	AF308649	AF308649 Solanum p	212	23.4	55.7	1941	15	AY541456	AY541456 Helianthu
c 140	28.2	67.1	1703	15	AF308650	AF308650 Solanum p	213	23.4	55.7	1947	15	AY541457	AY541457 Helianthu
c 141	28.2	67.1	1758	15	RRA344986	AJ344986 Raphanus	214	23.4	55.7	1959	15	AY541454	AY541454 Helianthu
c 142	28.2	67.1	1758	15	RRA344987	AJ344987 Raphanus	215	23.4	55.7	1959	15	AY541455	AY541455 Helianthu
c 143	28.2	67.1	1758	15	RRA344992	AJ344992 Raphanus	216	23.4	55.7	1965	15	AY541452	AY541452 Helianthu
c 144	28.2	67.1	1758	15	RRA344993	AJ344993 Raphanus	217	23.4	55.7	1977	15	AY541451	AY541451 Helianthu
c 145	28.2	67.1	2013	6	AX661063	AX661063 Sequence	218	23.4	55.7	1977	15	AY541453	AY541453 Helianthu
c 146	28.2	67.1	2013	6	AX683004	AX683004 Sequence	219	23.4	55.7	2468	15	NTALSURA	AX06318 Sequence
c 147	28.2	67.1	2013	6	AX695992	AX695992 Sequence	220	23.4	55.7	2520	6	I05376	I05376 Sequence 5
c 148	28.2	67.1	2019	6	CQ871364	CQ871364 Sequence	221	23.4	55.7	2938	6	AX700697	AX700697 Sequence
c 149	28.2	67.1	2077	6	CQ815037	CQ815037 Sequence	222	23.4	55.7	2938	6	AX700699	AX700699 Sequence
c 150	28.2	67.1	2083	6	CQ814635	CQ814635 Sequence	223	23.4	55.7	2946	6	I05373	I05373 Sequence 2
c 151	28.2	67.1	2087	6	CQ815035	CQ815035 Sequence	224	23.4	55.7	3755	5	BF242292	BF242292 Danilo rer
c 152	28.2	67.1	2227	15	AF094326	AF094326 Bassia sc	225	23.4	55.7	145503	5	AX70238	AX70238 zebrafish
c 153	28.2	67.1	2364	6	AX661062	AX661062 Sequence	226	23.4	55.7	227820	14	BX640405	BX640405 Danilo rer
c 154	28.2	67.1	2365	6	AR148434	AR148434 Sequence	227	23.2	55.2	114449	15	AC146790	AC146790 Medicago
c 155	28.2	67.1	2365	15	ATCSRI2	AX51514 Arabidopsis	c 228	23	54.8	171148	8	AL359195	AL359195 Human DNA
c 156	28.2	67.1	2381	15	GHAHAS5	Z46960 G.hirsutum	229	23	54.3	220599	14	AL357792	AL357792 Homo sapi
c 157	28.2	67.1	2493	6	CQ887981	CQ887981 Sequence	230	22.8	54.3	10170	6	CQ594293	CQ594293 Sequence
c 158	28.2	67.1	3231	15	GHAHAS19	Z46959 G.hirsutum	c 231	22.8	54.3	44830	14	AC014819	AC014819 Drosophila
c 159	28.2	67.1	3231	15	GHAHAS19	Z46959 G.hirsutum	232	22.8	54.3	110000	14	TANN2_00	CR940348 Theileria
c 160	28.2	67.1	14184	6	CQ774496	CQ774496 Sequence	233	22.8	54.3	113233	15	AP006351	AP006351 Lotus cor
c 161	27.2	64.8	1758	15	RRA344984	AJ344984 Raphanus	c 234	22.8	54.3	163279	2	AC104508	AC104508 Drosophila
c 162	27.2	64.8	1758	15	RRA344985	AJ344985 Raphanus	c 235	22.8	54.3	182705	2	AC091208	AC091208 Drosophila
c 163	26.6	63.3	121	6	AX324027	AX324027 Sequence	c 236	22.8	54.3	186492	14	AC162617	AC162617 Bos tauru
c 164	26.6	63.3	121	6	AX324028	AX324028 Sequence	237	22.8	54.3	244684	14	AC114841	AC114841 Rattus no

C 238	22.8	54.3	298672	14	AC108330	AC108330 Rattus no	C 311	21.8	51.9	143782	14	AC013808	AC013808 Homo sapi
C 239	22.8	54.3	315944	2	AE003564	AE003564 Drosophila	312	21.8	51.9	147945	14	AC012244	AC012244 Homo sapi
C 240	22.6	53.8	910	5	EX935628	EX935628 Gallus ga	313	21.8	51.9	157571	9	EX813317	EX813317 Mouse DNA
C 241	22.6	53.8	951	5	EX933630	EX933630 Gallus ga	314	21.8	51.9	174473	14	AC027728	AC027728 Homo sapi
C 242	22.6	53.8	951	5	EX933580	EX933580 Gallus ga	315	21.8	51.9	179093	14	AC155946	AC155946 Mus muscu
C 243	22.6	53.8	971	5	EX935042	EX935042 Gallus ga	316	21.8	51.9	185685	14	AC024283	AC024283 Homo sapi
C 244	22.6	53.8	1003	15	AY643432	AY643432 Pinus mer	C 317	21.8	51.9	192336	8	AL158155	AL158155 Zebrafish
C 245	22.6	53.8	119944	8	AC111162	AC111162 Homo sapi	C 318	21.8	51.9	196443	5	CR354605	CR354605 Zebrafish
C 246	22.6	53.8	159723	14	AC021862	AC021862 Homo sapi	C 319	21.8	51.9	215781	9	AC119867	AC119867 Mus muscu
C 247	22.6	53.8	165287	8	AC090599	AC090599 Homo sapi	C 320	21.8	51.9	221079	14	AC095324	AC095324 Rattus no
C 248	22.6	53.8	171430	9	AC110599	AC110599 Homo sapi	C 321	21.8	51.9	228481	9	AC153579	AC153579 Mus muscu
C 249	22.6	53.8	186439	9	AC116817	AC116817 Mus muscu	C 322	21.8	51.9	229545	9	AC099612	AC099612 Mus muscu
C 250	22.4	53.3	2935	11	AF221618	AF221618 Synthetic	C 323	21.8	51.9	229783	14	AC113845	AC113845 Rattus no
C 251	22.4	53.3	3216	5	GCEPUS	AJ225897 Gallus ga	C 324	21.8	51.9	236770	14	AC160435	AC160435 Bos tauru
C 252	22.4	53.3	35427	15	AC163892	AC163892 Glomus in	C 325	21.8	51.9	243876	14	AC129753	AC129753 Rattus no
C 253	22.4	53.3	184339	14	AC151179	AC151179 Bos tauru	C 326	21.8	51.9	255755	14	AC126877	AC126877 Rattus no
C 254	22.4	53.3	190723	9	AC102592	AC102592 Mus muscu	C 327	21.8	51.9	260036	14	AC130079	AC130079 Rattus no
C 255	22.2	52.9	183473	9	AL928699	AL928699 Mouse DNA	C 328	21.6	51.4	1550	9	BC011068	BC011068 Mus muscu
C 256	22.2	52.9	186150	14	AC133026	AC133026 Rattus no	C 329	21.6	51.4	1604	9	BC010249	BC010249 Mus muscu
C 257	22.2	52.9	188664	9	AC121931	AC121931 Mus muscu	C 330	21.6	51.4	3236	9	BC057633	BC057633 Mus muscu
C 258	22.2	52.9	203152	14	AC131371	AC131371 Rattus no	C 331	21.6	51.4	60989	6	AX646005	AX646005 Sequence
C 259	22.2	52.9	215426	14	AC134227	AC134227 Rattus no	C 332	21.6	51.4	60989	8	AB065505	AB065505 Homo sapi
C 260	22.2	52.9	239357	14	AC120302	AC120302 Rattus no	C 333	21.6	51.4	77732	14	AC074074	AC074074 Homo sapi
C 261	22.2	52.9	241587	14	AC097859	AC097859 Rattus no	C 334	21.6	51.4	102840	8	AL161719	AL161719 Human DNA
C 262	22.2	52.9	246597	14	AC035510	AC035510 Rattus no	C 335	21.6	51.4	110000	15	AP008217_168	Continuation (169
C 263	22.2	52.9	290179	14	AC134072	AC134072 Rattus no	C 336	21.6	51.4	110000	15	AE017344_07	Continuation (8 of
C 264	22	52.4	18767	4	BT9913	AJ009913 Bos tauru	C 337	21.6	51.4	124321	15	EX842641	EX842641 Neurospor
C 265	22	52.4	58778	14	AP001959	AP001959 Homo sapi	C 338	21.6	51.4	128500	8	AC069426	AC069426 Homo sapi
C 266	22	52.4	125633	14	AC126770	AC126770 Homo sapi	C 339	21.6	51.4	131308	15	AC135121	AC135121 Oryza sat
C 267	22	52.4	123234	14	AC004737	AC004737 Homo sapi	C 340	21.6	51.4	132638	8	AC026713	AC026713 Homo sapi
C 268	22	52.4	138425	8	AC094098	AC094098 Homo sapi	C 341	21.6	51.4	144257	14	AC068131	AC068131 Homo sapi
C 269	22	52.4	157402	14	AC034161	AC034161 Homo sapi	C 342	21.6	51.4	165833	8	AL445440	AL445440 Human DNA
C 270	22	52.4	170687	8	BS000188	BS000188 Pan trogl	C 343	21.6	51.4	166572	14	AC097102	AC097102 Homo sapi
C 271	22	52.4	174707	8	AC090602	AC090602 Homo sapi	C 344	21.6	51.4	184523	14	AC149876	AC149876 Xenopus t
C 272	22	52.4	176601	14	AC026049	AC026049 Homo sapi	C 345	21.6	51.4	187266	14	AC073984	AC073984 Homo sapi
C 273	22	52.4	188754	9	AC091260	AC091260 Mus muscu	C 346	21.6	51.4	203298	14	AC073113	AC073113 Homo sapi
C 274	22	52.4	197730	14	AC019094	AC019094 Homo sapi	C 347	21.6	51.4	205433	14	AC154392	AC154392 Mus muscu
C 275	22	52.4	202009	14	CT010440	CT010440 Mus muscu	C 348	21.6	51.4	219481	14	AC161435	AC161435 Mus muscu
C 276	22	52.4	203244	8	AC090983	AC090983 Homo sapi	C 349	21.6	51.4	250264	14	AC108970	AC108970 Rattus no
C 277	22	52.4	210563	8	AC034154	AC034154 Homo sapi	C 350	21.4	51.0	12016	1	AE009851	AE009851 Pyrobacul
C 278	22	52.4	229137	14	AC156663	CQ556623 Bos tauru	C 351	21.4	51.0	73938	14	AC044861	AC044861 Mus muscu
C 279	21.8	51.9	65	6	CQ556623	CQ556623 Sequence	C 352	21.4	51.0	107506	8	HS0472M2	AL121952 Human DNA
C 280	21.8	51.9	300	6	AX394164	AX394164 Sequence	C 353	21.4	51.0	110000	1	CR522870_34	Continuation (35 o
C 281	21.8	51.9	380	6	AX394163	AX394163 Sequence	C 354	21.4	51.0	110000	14	AC099203_2	Continuation (3 of
C 282	21.8	51.9	407	6	AX394162	AX394162 Sequence	C 355	21.4	51.0	110000	14	AC121713_1	Continuation (2 of
C 283	21.8	51.9	1003	15	AY634353	AY634353 Pinus rox	C 356	21.4	51.0	160104	14	AC155951	AC155951 Xenopus t
C 284	21.8	51.9	1259	9	MMU60473	U60473 Mus musculu	C 357	21.4	51.0	160104	14	AC155951	AC155951 Xenopus t
C 285	21.8	51.9	1504	15	D89172	D89172 Schizosacch	C 358	21.4	51.0	164520	14	AC020738	AC020738 Homo sapi
C 286	21.8	51.9	1941	15	AY541458	AY541458 Helianthu	C 359	21.4	51.0	176719	5	AL935318	AL935318 Zebrafish
C 287	21.8	51.9	1968	6	AX367150	AX367150 Sequence	C 360	21.4	51.0	180209	8	AL160271	AL160271 Human DNA
C 288	21.8	51.9	2100	6	AX747163	AX747163 Sequence	C 361	21.4	51.0	183807	9	AC101956	AC101956 Mus muscu
C 289	21.8	51.9	2100	8	AK091755	AK091755 Homo sapi	C 362	21.4	51.0	186285	14	AC116775	AC116775 Mus muscu
C 290	21.8	51.9	2432	15	AF024632	AF024632 Volvox ca	C 363	21.4	51.0	187493	9	AC157279	AC157279 Mus muscu
C 291	21.8	51.9	5367	1	FS024632	L48985 Pseudomonas	C 364	21.4	51.0	189628	14	AC146318	AC146318 Gallus ga
C 292	21.8	51.9	6462	15	AF044920	AF044920 Volvox ca	C 365	21.4	51.0	191450	14	AC091715	AC091715 Bos tauru
C 293	21.8	51.9	13528	9	AF247652	AF247652 Mus muscu	C 366	21.4	51.0	195491	14	AC097349	AC097349 Bos tauru
C 294	21.8	51.9	16555	5	AP002936	AP002936 Danacetic	C 367	21.4	51.0	199500	9	AL596103	AL596103 Mouse DNA
C 295	21.8	51.9	23645	15	SPBC2G5	AL033385 S.pombe c	C 368	21.4	51.0	203372	14	AC121346	AC121346 Rattus no
C 296	21.8	51.9	48384	9	AF224201	AF224201 Mus muscu	C 369	21.4	51.0	203765	14	AC139635	AC139635 Gallus ga
C 297	21.8	51.9	67473	1	AE016854	AE016854 Pseudomon	C 370	21.4	51.0	211191	14	AC162438	AC162438 Salmiri b
C 298	21.8	51.9	70663	14	AC073400	AC073400 Homo sapi	C 371	21.4	51.0	221343	14	AC134286	AC134286 Rattus no
C 299	21.8	51.9	74377	8	AC010499	AC010499 Homo sapi	C 372	21.4	51.0	222099	14	AC160122	AC160122 Mus muscu
C 300	21.8	51.9	85995	14	AC027404	AC027404 Homo sapi	C 373	21.4	51.0	224649	14	AC128414	AC128414 Rattus no
C 301	21.8	51.9	89162	8	AC109779	AC109779 Homo sapi	C 374	21.4	51.0	244221	14	AC103189	AC103189 Rattus no
C 302	21.8	51.9	92049	8	AC039064	AC039064 Homo sapi	C 375	21.4	51.0	246176	14	AC095114	AC095114 Rattus no
C 303	21.8	51.9	99338	8	AC024567	AC024567 Homo sapi	C 376	21.4	51.0	251161	14	AC121728	AC121728 Rattus no
C 304	21.8	51.9	104150	14	CT010521	CT010521 Medicago	C 377	21.4	51.0	262239	14	AC147863	AC147863 Gallus ga
C 305	21.8	51.9	110000	15	AP008207_221	Continuation (222	C 378	21.4	51.0	278954	14	AC121436	AC121436 Rattus no
C 306	21.8	51.9	121439	8	AC010236	AC010236 Homo sapi	C 379	21.4	51.0	291913	14	AC099201	AC099201 Rattus no
C 307	21.8	51.9	125920	15	AP003432	AP003432 Oryza sat	C 380	21.4	51.0	349980	6	CQ870290	CQ870290 Sequence
C 308	21.8	51.9	137074	4	AC145184	AC145184 Macropus	C 381	21.2	50.5	2277	5	BC095267	BC095267 Danio rer
C 309	21.8	51.9	143029	9	AC129012	AC129012 Mus muscu	C 382	21.2	50.5	3315	15	BNALS	X16708 Brassica na
C 310	21.8	51.9	143370	14	AC130412	AC130412 Homo sapi	C 383	21.2	50.5	3326	15	BNASHYII	Z11525 B.napus gen





GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:35:46 ; Search time 355.385 Seconds  
(without alignments)  
787.645 Million cell updates/sec

Title: US-10-805-973-12

Perfect score: 42

Sequence: 1 cagctgtgctatgatcccc.....acgtggtgctttcaaggac 42

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 4996997 seqs, 332346308 residues

Total number of hits satisfying chosen parameters: 9993994

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 500 summaries

Database :

N\_Geneseq\_21:\*

- 1: Geneseq1980s:\*
- 2: Geneseq1990s:\*
- 3: Geneseq2000s:\*
- 4: Geneseq2001as:\*
- 5: Geneseq2001bs:\*
- 6: Geneseq2002as:\*
- 7: Geneseq2002bs:\*
- 8: Geneseq2003as:\*
- 9: Geneseq2003bs:\*
- 10: Geneseq2003cs:\*
- 11: Geneseq2003ds:\*
- 12: Geneseq2004as:\*
- 13: Geneseq2004bs:\*
- 14: Geneseq2005s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	42	100.0	121	6	ABK24749
3	42	100.0	121	12	ADN43441
4	42	100.0	121	12	ADN43440
5	42	100.0	411	8	ABZ82272
6	42	100.0	509	12	ADO21234
7	42	100.0	575	12	ADO21236
8	42	100.0	575	14	ADV11356
9	42	100.0	1674	10	ADP50218
10	42	100.0	1674	10	ADP50220
11	42	100.0	1675	10	ADP50201
12	42	100.0	1677	10	ADP50224
13	41.6	100.0	1788	14	ADV11374
14	40.4	96.2	511	8	ABZ82273
15	40.4	96.2	1524	10	ADP50207
16	40.4	96.2	1524	10	ADP50205
17	40.4	96.2	1672	10	ADP50203
18	40.4	96.2	1673	10	ADP50216
19	40.4	96.2	1674	10	ADP50232

20	40.4	96.2	1674	10	ADP50222	Adf50222 Partial A
21	40.4	96.2	1710	14	ADV11376	Adv11376 Imidazoli
22	40.4	96.2	1723	14	ADV11358	Adv11358 Imidazoli
23	40.4	96.2	1788	14	ADV11366	Adv11366 Durum whe
24	40.4	96.2	1788	14	ADV11368	Adv11368 Durum whe
25	40.4	96.2	1788	14	ADV11354	Adv11354 Imidazoli
26	40.4	96.2	1788	14	ADV11370	Adv11370 Durum whe
27	38.8	92.4	121	6	ABK24737	Abk24737 Glyphosat
28	38.8	92.4	121	6	ABK24738	Abk24738 Glyphosat
29	38.8	92.4	121	12	ADN43428	Adn43428 Mutant ce
30	38.8	92.4	121	12	ADN43429	Adn43429 Mutant ce
31	38.8	92.4	370	8	ACC00300	Acc00300 Mutant ac
32	38.8	92.4	1524	10	ADP50206	Adp50206 Wheat Tea
33	38.8	92.4	1673	10	ADP50230	Adp50230 Partial A
34	38.8	92.4	1673	10	ADP50226	Adp50226 Partial A
35	38.8	92.4	1673	10	ADP50228	Adp50228 Partial A
36	38.8	92.4	1674	10	ADP50234	Adp50234 Partial A
37	38.8	92.4	1756	14	ADV11362	Adv11362 Imidazoli
38	38.8	92.4	1768	14	ADV11360	Adv11360 Imidazoli
39	38.8	92.4	1788	14	ADV11372	Adv11372 Durum whe
40	38.8	92.4	1788	14	ADV11364	Adv11364 Durum whe
41	38.8	92.4	1788	14	ADV11369	Adv11369 Durum whe
42	38.8	92.4	1788	14	ADV11367	Adv11367 Durum whe
43	37.2	88.6	370	8	ACC00301	Acc00301 Wild-type
44	36.4	86.7	498	8	ABZ82274	Abz82274 Acetohydr
45	34.6	82.4	121	6	ABK24725	Abk24725 Glyphosat
46	34.6	82.4	121	6	ABK24726	Abk24726 Glyphosat
47	34.6	82.4	121	12	ADN43416	Adn43416 Mutant ce
48	34.6	82.4	121	12	ADN43417	Adn43417 Mutant ce
49	34	81.0	121	6	ABK24781	Abk24781 Glyphosat
50	34	81.0	121	6	ABK24894	Abk24894 Glyphosat
51	34	81.0	121	6	ABK24937	Abk24937 Glyphosat
52	34	81.0	121	6	ABK24893	Abk24893 Glyphosat
53	34	81.0	121	6	ABK24709	Abk24709 Glyphosat
54	34	81.0	121	6	ABK24710	Abk24710 Glyphosat
55	34	81.0	121	6	ABK24782	Abk24782 Glyphosat
56	34	81.0	121	6	ABK24938	Abk24938 Glyphosat
57	34	81.0	121	12	ADN43629	Adn43629 Mutant ce
58	34	81.0	121	12	ADN43400	Adn43400 Mutant ce
59	34	81.0	121	12	ADN43472	Adn43472 Mutant ce
60	34	81.0	121	12	ADN43401	Adn43401 Mutant ce
61	34	81.0	121	12	ADN43628	Adn43628 Mutant ce
62	34	81.0	121	12	ADN43584	Adn43584 Mutant ce
63	34	81.0	121	12	ADN43585	Adn43585 Mutant ce
64	34	81.0	121	12	ADN43473	Adn43473 Mutant ce
65	34	81.0	528	6	ABK14668	Abk14668 Partial c
66	34	81.0	1986	6	ABK14669	Abk14669 cDNA enco
67	33	78.6	121	6	ABK24721	Abk24721 Glyphosat
68	33	78.6	121	6	ABK24905	Abk24905 Glyphosat
69	33	78.6	121	6	ABK24906	Abk24906 Glyphosat
70	33	78.6	121	6	ABK24722	Abk24722 Glyphosat
71	33	78.6	121	12	ADN43412	Adn43412 Mutant ce
72	33	78.6	121	12	ADN43597	Adn43597 Mutant ce
73	33	78.6	121	12	ADN43596	Adn43596 Mutant ce
74	33	78.6	121	12	ADN43413	Adn43413 Mutant ce
75	33	78.6	1969	2	AAQ34551	Aaq34551 Herbicide
76	33	78.6	1969	2	AAV24025	Aav24025 AHAS clon
77	33	78.6	1969	2	ABZ55707	Abz55707 DNA enco
78	33	78.6	2226	2	AAQ25381	Aaq25381 Sequence
79	32.4	77.1	352	14	ABE65735	Abe65735 Rice geno
80	32.4	77.1	1846	13	ADR23157	Adr23157 Smooth pi
81	32.4	77.1	1916	14	ADY79260	Ady79260 DNA enco
82	32.4	77.1	1925	14	ADY79258	Ady79258 DNA enco
83	32.4	77.1	1930	13	ADR23159	Adr23159 Smooth pi
84	32.4	77.1	1935	10	ADP50214	Adp50214 Rice ALS/
85	32.4	77.1	1936	14	ADY79266	Ady79266 DNA enco
86	32.4	77.1	1940	14	ADY79256	Ady79256 DNA enco
87	32.4	77.1	1956	14	ADY79264	Ady79264 DNA enco
88	32.4	77.1	1986	6	ABK14667	Abk14667 Rice acet
89	32.4	77.1	1986	14	ADY79262	Ady79262 DNA enco
90	32.4	77.1	2279	6	ABK14658	Abk14658 cDNA enco
91	32.4	77.1	2279	6	ABN89399	Abn89399 Rice acet
92	32.4	77.1	2294	10	ADD42026	Add42026 Rice acet

93	32.4	77.1	2294	10	ADD42024	Add42024 Rice acet	166	26.8	63.8	369	8	ACC00302	Consensus
94	32.4	77.1	2300	10	ADD42022	Add42022 Rice acet	167	26.6	63.3	121	6	ABK24805	Glyphosat
95	32.4	77.1	2301	6	ABK14657	Abk14657 Rice acet	c 168	26.6	63.3	121	6	ABK24806	Glyphosat
96	32.4	77.1	2301	10	ADD42020	Add42020 Rice acet	169	26.6	63.3	121	12	ADN43496	Mutant ce
97	31.4	74.8	1478	13	ADO83726	Ado83726 Plant ful	c 170	26.6	63.3	121	12	ADN43497	Mutant ce
98	31.4	74.8	1625	13	ADX60490	Adx60490 Plant ful	171	26.6	63.3	1574	13	ADT92069	B. napus
99	31.4	74.8	1969	2	AAQ34552	Aaq34552 Herbicide	172	26.6	63.3	1707	10	ADH80252	Chicory a
100	31.4	74.8	1969	2	AAQ34553	Aaq34553 Herbicide	173	26.6	63.3	1707	10	ADH80254	Chicory a
101	31.4	74.8	1969	2	AAV24026	Aav24026 AHAS clon	174	26.6	63.3	1950	12	ADO06869	Brassica
102	31.4	74.8	1969	2	AAV24027	Aav24027 AHAS clon	175	26.6	63.3	1990	12	ADO06865	Brassica
103	31.4	74.8	1969	6	ABS55709	Ab55709 DNA encod	176	26.6	63.3	1994	12	ADO06868	Brassica
104	31.4	74.8	1969	6	ABS55708	Ab55708 DNA encod	177	26.6	63.3	2003	12	ADO06863	Brassica
105	31.4	74.8	2089	2	AAQ25380	Aaq25380 Sequence	178	26.6	63.3	2033	3	AAC51624	Arabidops
106	31.4	74.8	2141	2	AAQ25382	Aaq25382 Sequence	179	26.6	63.3	2033	3	AAC51624	Arabidops
107	31.4	74.8	2216	13	ADQ09977	Adq09977 Plant ful	180	26.6	63.3	2033	10	AAQ60033	A. thalia
108	31.4	74.8	2546	2	AAQ03661	Aaq03661 Maize C3	181	26.6	63.3	2033	10	AAQ60034	A. thalia
109	31.4	74.8	2967	2	AAQ03659	Aaq03659 Maize C1	182	26.6	63.3	2033	10	AAQ60034	A. thalia
c 110	31	73.8	41	10	ACF79782	Acf79782 Maize ace	183	26.6	63.3	2033	10	AAQ60034	A. thalia
c 111	29.8	71.0	121	6	ABK24689	Abk24689 Glyphosat	184	26.6	63.3	2116	12	ADN43137	Brassica
c 112	29.8	71.0	121	6	ABK24922	Abk24922 Glyphosat	185	26.6	63.3	2116	12	ADN43137	Brassica
c 113	29.8	71.0	121	6	ABK24834	Abk24834 Glyphosat	186	26.6	63.3	2359	12	ADO06881	Brassica
c 114	29.8	71.0	121	6	ABK24921	Abk24921 Glyphosat	187	26.6	63.3	2365	2	AAV11890	Brassica
c 115	29.8	71.0	121	6	ABK24765	Abk24765 Glyphosat	188	26.6	63.3	2378	12	ADO06880	Brassica
c 116	29.8	71.0	121	6	ABK24833	Abk24833 Glyphosat	189	26.6	63.3	2523	2	AAQ26001	Brassica
c 117	29.8	71.0	121	6	ABK24690	Abk24690 Glyphosat	190	26.6	63.3	2523	2	AAQ26001	Brassica
c 118	29.8	71.0	121	6	ABK24766	Abk24766 Glyphosat	191	26.6	63.3	2907	2	AAQ28389	Gene from
c 119	29.8	71.0	121	12	ADN43381	Adn43381 Mutant ce	192	26.6	63.3	2907	2	AAQ28389	Gene from
c 120	29.8	71.0	121	12	ADN43524	Adn43524 Mutant ce	193	26.6	63.3	2907	2	AAQ28389	Gene from
c 121	29.8	71.0	121	12	ADN43457	Adn43457 Mutant ce	c 194	25	59.5	121	6	ABK24794	Glyphosat
c 122	29.8	71.0	121	12	ADN43525	Adn43525 Mutant ce	195	25	59.5	121	6	ABK24794	Glyphosat
c 123	29.8	71.0	121	12	ADN43612	Adn43612 Mutant ce	c 196	25	59.5	121	6	ABK24794	Glyphosat
c 124	29.8	71.0	121	12	ADN43456	Adn43456 Mutant ce	c 197	25	59.5	121	6	ABK24794	Glyphosat
c 125	29.8	71.0	121	12	ADN43380	Adn43380 Mutant ce	c 198	25	59.5	121	6	ABK24794	Glyphosat
c 126	29.8	71.0	121	12	ADN43613	Adn43613 Mutant ce	c 199	25	59.5	121	6	ABK24794	Glyphosat
c 127	29.4	70.0	41	10	ACF79780	Acf79780 Maize ace	200	25	59.5	2156	2	AAQ28389	Gene from
c 128	29.4	70.0	41	10	ACF79779	Acf79779 Maize ace	201	25	59.5	2156	2	AAQ28389	Gene from
c 129	29.4	70.0	41	10	ACF79781	Acf79781 Maize ace	202	25	59.5	2156	2	AAQ28389	Gene from
c 130	28.2	67.1	121	6	ABK24694	Abk24694 Glyphosat	203	25	59.5	2461	12	ADO26392	cdNA enco
c 131	28.2	67.1	121	6	ABK24822	Abk24822 Glyphosat	204	25	59.5	2461	12	ADO26392	cdNA enco
c 132	28.2	67.1	121	6	ABK24861	Abk24861 Glyphosat	205	25	59.5	2702	2	AAV55872	Plant ace
c 133	28.2	67.1	121	6	ABK24878	Abk24878 Glyphosat	206	25	59.5	2702	2	AAV55872	Plant ace
c 134	28.2	67.1	121	6	ABK24693	Abk24693 Glyphosat	207	25	59.5	2702	2	AAV55872	Plant ace
c 135	28.2	67.1	121	6	ABK24849	Abk24849 Glyphosat	208	25	59.5	2930	2	ABA98839	N. plumba
c 136	28.2	67.1	121	6	ABK24850	Abk24850 Glyphosat	209	25	59.5	2930	2	ABA98839	N. plumba
c 137	28.2	67.1	121	6	ABK24862	Abk24862 Glyphosat	210	25	59.5	2930	2	ABA98839	N. plumba
c 138	28.2	67.1	121	6	ABK24877	Abk24877 Glyphosat	211	25	59.5	2930	2	ABA98839	N. plumba
c 139	28.2	67.1	121	6	ABK24821	Abk24821 Glyphosat	212	24.6	58.6	253	10	ADF37959	cdNA enco
c 140	28.2	67.1	121	12	ADN43553	Adn43553 Mutant ce	c 213	23.6	56.2	68	2	AAQ77305	cdNA enco
c 141	28.2	67.1	121	12	ADN43541	Adn43541 Mutant ce	c 214	23.6	56.2	68	2	AAQ77305	cdNA enco
c 142	28.2	67.1	121	12	ADN43568	Adn43568 Mutant ce	c 215	23.6	56.2	68	2	AAQ77305	cdNA enco
c 143	28.2	67.1	121	12	ADN43385	Adn43385 Mutant ce	c 216	23.6	56.2	68	2	AAQ77305	cdNA enco
c 144	28.2	67.1	121	12	ADN43569	Adn43569 Mutant ce	c 217	23.6	56.2	68	2	AAQ77305	cdNA enco
c 145	28.2	67.1	121	12	ADN43512	Adn43512 Mutant ce	218	23.6	56.2	1095	6	ABK14656	Rice acet
c 146	28.2	67.1	121	12	ADN43384	Adn43384 Mutant ce	219	23.4	55.7	1985	6	ABK14670	cdNA enco
c 147	28.2	67.1	121	12	ADN43540	Adn43540 Mutant ce	220	23.4	55.7	2520	1	AAQ11459	cdNA enco
c 148	28.2	67.1	121	12	ADN43513	Adn43513 Mutant ce	221	23.4	55.7	2520	1	AAQ11459	cdNA enco
c 149	28.2	67.1	121	12	ADN43552	Adn43552 Mutant ce	222	23.4	55.7	2520	1	AAQ11459	cdNA enco
c 150	28.2	67.1	326	12	ADN43552	Adn43552 Mutant ce	223	23.4	55.7	2520	1	AAQ11459	cdNA enco
c 151	28.2	67.1	478	13	ACN47100	Acn47100 Cotton ex	224	23.4	55.7	2520	1	AAQ11459	cdNA enco
c 152	28.2	67.1	551	13	ACN47084	Acn47084 Cotton pr	225	23.4	55.7	2520	1	AAQ11459	cdNA enco
c 153	28.2	67.1	2013	8	ABX94737	Abx94737 A. thalia	226	23.4	55.7	2938	8	ABZ76103	H. annus
c 154	28.2	67.1	2013	10	ACA63085	Aca63085 A. thalia	227	22.8	54.3	10170	4	ABL16540	Drosophil
c 155	28.2	67.1	2019	13	ADQ03244	Adq03244 Arabidops	228	21.8	51.9	65	6	ABN53510	Mouse spl
c 156	28.2	67.1	2077	12	ADO06864	Ado06864 Brassica	229	21.8	51.9	300	6	ABK47195	Mouse EST
c 157	28.2	67.1	2083	12	ADN43136	Adn43136 Brassica	230	21.8	51.9	300	12	ADQ90483	Mouse OCS
c 158	28.2	67.1	2087	12	ADO06862	Ado06862 Brassica	231	21.8	51.9	380	12	ADQ90482	Mouse ast
c 159	28.2	67.1	2300	6	AAQ62735	Aaq62735 Herbicide	232	21.8	51.9	380	12	ADQ90482	Mouse CD5
c 160	28.2	67.1	2364	6	AAU44391	Aau44391 Modified	233	21.8	51.9	406	6	ABK47193	Mouse CD5
c 161	28.2	67.1	2365	2	AAU44391	Aau44391 Modified	234	21.8	51.9	407	12	ADQ90481	Mouse ast
c 162	28.2	67.1	2365	2	AAU44391	Aau44391 Modified	235	21.8	51.9	1968	6	AAQ29251	Soybean a
c 163	28.2	67.1	2493	13	ADQ51629	Adq51629 Arabidops	236	21.8	51.9	2055	13	ADQ51629	Bacterial
c 164	28.2	67.1	5717	12	ADI34712	Adi34712 A. thalia	237	21.8	51.9	2100	10	ADB62534	Human cDN
c 165	28.2	67.1	14184	12	ADL27876	Adl27876 E coli co	238	21.8	51.9	3979	13	ADR20217	Soybean e

239	21.6	51.4	1575	13	ADS49029	Adx49029 Bacterial	312	20	47.6	1182	8	ACA43844	Aca43844 Prokaryot
c 240	21.6	51.4	60989	10	ADC85744	Adc85744 Human GPC	313	20	47.6	1452	5	AAS88504	Aas88504 DNA encod
c 241	21.4	51.0	110000	13	ABD32966_02	Continuation (3 of	c 314	20	47.6	1514	5	AAS86721	Aas86721 DNA encod
242	21.2	50.5	2745	14	ADM16769	Adm16769 Pinus rad	c 315	20	47.6	1600	13	ADX15108	Adx15108 Plant ful
243	21	50.0	521	8	ABX98502	Abx98502 Rice albu	c 316	20	47.6	1665	4	APF60987	Apf60987 P. putida
c 244	21	50.0	19851	4	AKK85642	Akk85642 Human imm	c 317	20	47.6	2000	11	ACL37425	Ac137425 Rice scro
c 245	21	50.0	46718	8	ASS57422	Ass57422 Human pro	c 318	19.8	47.1	375	13	ADX31596	Adx31596 Plant ful
c 246	21	50.0	46718	10	ADG62974	Adg62974 Human pro	c 319	19.8	47.1	556	13	ADX47181	Adx47181 Plant ful
247	20.8	49.5	349	6	ABN26309	Abn26309 Human ORF	c 320	19.8	47.1	593	13	ADX61399	Adx61399 Plant ful
248	20.8	49.5	387	3	ADF56785	Adf56785 Urogenita	c 321	19.8	47.1	616	13	ADX12643	Adx12643 Plant ful
249	20.8	49.5	2382	8	ABT18856	Abt18856 Aspergill	c 322	19.8	47.1	622	5	ABV53229	Abv53229 Human pro
250	20.8	49.5	2436	8	ABT18262	Abt18262 Aspergill	c 323	19.8	47.1	650	13	ADX35258	Adx35258 Plant ful
251	20.8	49.5	2580	8	ABT20676	Abt20676 Aspergill	c 324	19.8	47.1	653	13	ADX46911	Adx46911 Plant ful
252	20.8	49.5	2819	8	ABT20078	Abt20078 Aspergill	c 325	19.8	47.1	689	13	ADX54164	Adx54164 Plant ful
253	20.8	49.5	4436	8	ABT17668	Abt17668 Aspergill	c 326	19.8	47.1	695	13	ADX52147	Adx52147 Plant ful
254	20.8	49.5	4460	6	ABK52938	Abk52938 S. mutans	c 327	19.8	47.1	744	11	ACN92844	Acn92844 Breast ca
255	20.8	49.5	4819	8	ABT19482	Abt19482 Aspergill	c 328	19.8	47.1	1146	13	ADR91885	Adr91885 Novel S.
256	20.8	49.5	4896	6	ABK52939	Abk52939 S. mutans	c 329	19.8	47.1	1146	14	AEA55755	Aea55755 Streptoco
257	20.8	49.5	5684	6	ABK52424	Abk52424 Streptoco	c 330	19.8	47.1	1203	13	ADK45904	Adk45904 Streptoco
258	20.6	49.0	1258	5	ABA21433	Abat21433 Human ner	c 331	19.8	47.1	1206	3	AAA81654	Aaa81654 N. mening
259	20.6	49.0	19211	3	AAA81507	Aaa81507 N. mening	c 332	19.8	47.1	1225	14	ADM16954	Adm16954 Pinus rad
c 260	20.6	49.0	110000	3	AAA81490_09	Continuation (10 o	c 333	19.8	47.1	1320	2	AAV20948	Aav20948 Coffee-fr
c 261	20.6	49.0	34980	3	AAF21609	Aaf21609 Neisseria	c 334	19.8	47.1	1320	8	ABX13604	Abx13604 Coffee CD
c 262	20.6	49.0	34980	3	AAF21608	Aaf21608 Neisseria	c 335	19.8	47.1	1320	10	ADK94018	Adk94018 Coffee AC
c 263	20.4	48.6	68	4	AAF30665	Aaf30665 Aminohydr	c 336	19.8	47.1	1320	10	ADK94018	Adk94018 Coffee AC
264	20.4	48.6	2012	13	ADX11853	Adx11853 Plant ful	c 337	19.8	47.1	14807	10	ADG32806	Adg32806 Human DNA
c 265	20.4	48.6	8573	12	ADO47655	Ado47655 Control o	c 338	19.8	47.1	14807	10	ADG32806	Adg32806 Human DNA
c 266	20.4	48.6	9573	14	AEA21233	Aea21233 T-DNA reg	c 339	19.8	47.1	14807	14	ADU16959	Adu16959 Human pro
c 267	20.4	48.6	9573	14	AEA44198	Aea44198 Thale cre	c 340	19.8	47.1	14807	14	ADU92047	Adu92047 Human PAM
268	20.4	48.6	110000	14	AEA61163_0	Aea61163 Human IGL	c 341	19.8	47.1	14807	14	ADU92047	Adu92047 Human PAM
c 269	20.4	48.6	118935	14	ADZ13136	Adz13136 Murine ca	c 342	19.8	47.1	14910	5	ASR84004	Asr84004 DNA encod
270	20.2	48.1	65	2	AAV82643	Aav82643 Oligonuc	c 343	19.8	47.1	21511	14	ACL64738	Ac164738 M. xanthu
271	20.2	48.1	68	2	AAV76998	Aav76998 Chimeric	c 344	19.8	47.1	26059	4	AAK69104	Aak69104 Human imm
272	20.2	48.1	68	14	ABE17359	Abel17359 Chimeric	c 345	19.8	47.1	125322	13	ABD33622	Abd33622 Murine ca
273	20.2	48.1	68	14	ABE17381	Abel17381 Chimeric	c 346	19.8	47.1	263744	10	ADF08271	Adf08271 Mouse apo
274	20.2	48.1	68	14	ABE17384	Abel17384 Chimeric	c 347	19.8	47.1	290040	14	ADU16961	Adu16961 Human pro
c 275	20.2	48.1	400	4	AAU09462	Aal09462 Human bre	c 348	19.8	47.1	290040	14	ADU92049	Adu92049 Human PAM
c 276	20.2	48.1	466	11	ACN79662	Acn79662 Breast ca	c 349	19.6	46.7	30	12	ADN43244	Adn43244 Brassica
277	20.2	48.1	531	10	ADF79829	Adf79829 Leukaemia	c 350	19.6	46.7	1269	13	ADL27947	Adl27947 Rice abio
278	20.2	48.1	1960	3	AAA67997	Aaa67997 Pinus rad	c 351	19.6	46.7	1347	11	ACL27947	Ac127947 Rice abio
279	20.2	48.1	1960	10	ADDA1747	Adda1747 4-coumara	c 352	19.6	46.7	1436	13	ADX51696	Adx51696 Plant ful
280	20.2	48.1	1961	2	AAV23876	Aav23876 Plant 4CL	c 353	19.6	46.7	1580	10	ADW72058	Adw72058 Human uri
281	20.2	48.1	1961	2	AAZ06902	Aaz06902 Pine 4-co	c 354	19.6	46.7	2026	14	ADU26036	Adu26036 Huc2G4 DN
282	20.2	48.1	1961	3	AAA69581	Aaa69581 Pinus rad	c 355	19.6	46.7	2028	10	ADE97379	Ade97379 Human IGG
283	20.2	48.1	1961	3	AAA67963	Aaa67963 Pinus rad	c 356	19.6	46.7	2028	14	ADW71823	Adw71823 Human IGG
284	20.2	48.1	1961	10	ADDA1713	Adda1713 4-coumara	c 357	19.6	46.7	2029	2	AAQ30909	Aaq30909 pBAG101 i
285	20.2	48.1	2361	3	AAA39476	Aaa39476 Human TNF	c 358	19.6	46.7	2066	13	ADL13561	Adl13561 Plant ful
286	20.2	48.1	2361	10	AAD63574	Adad63574 Human TNF	c 359	19.6	46.7	2138	10	ADD72061	Add72061 Human uri
287	20.2	48.1	2361	10	ADG47642	Adg47642 Human TNF	c 360	19.6	46.7	2560	2	AAQ30910	Aaq30910 pMDR1002
288	20.2	48.1	2380	2	AAT31274	Aat31274 Epstein-B	c 361	19.6	46.7	2667	8	ACA00955	Aca00955 C. glutam
289	20.2	48.1	2380	3	AAA55490	Aaa55490 Human TRA	c 362	19.6	46.7	2715	5	AAH66459	Aah66459 C. glutam
290	20.2	48.1	2380	6	ABK84255	Abk84255 Human cDN	c 363	19.6	46.7	2757	14	ADW71843	Adw71843 Human OKT
291	20.2	48.1	2380	10	ADF76475	Adf76475 Novel hum	c 364	19.6	46.7	2845	10	ADL13195	Adl13195 C. glutam
292	20.2	48.1	2380	13	ADR25323	Adr25323 Breast ca	c 365	19.6	46.7	2845	10	ADJ87346	Adj87346 DNA repli
293	20.2	48.1	2412	12	ADL22895	Adl22895 Human MP2	c 366	19.6	46.7	4694	4	AAF55225	Aaf55225 Nucleotid
294	20.2	48.1	2412	12	ADL62946	Adl62946 Human PRO	c 367	19.6	46.7	4694	6	ABK85577	Abk85577 Human IGG
295	20.2	48.1	2412	12	ADO19523	Ado19523 Human PRO	c 368	19.6	46.7	10554	14	ADW71849	Adw71849 APEX-3p G
296	20.2	48.1	2412	13	ADP56101	Adp56101 Human PRO	c 369	19.6	46.7	11189	14	ADW71853	Adw71853 APEX-3pMo
297	20.2	48.1	2412	14	ADY15589	Ady15589 DNA encod	c 370	19.6	46.7	30943	12	ADM80034	Adm80034 SpiramyCI
298	20.2	48.1	2412	14	ADY19881	Ady19881 DNA encod	c 371	19.6	46.7	30943	12	ADN97550	Adn97550 S. ambotac
c 299	20.2	48.1	3350	13	ADG49096	Adg49096 Bacterial	c 372	19.6	46.7	32188	5	ABA18472	Abal8472 Human ner
300	20.2	48.1	5981	8	ABX63823	Abx63823 Human cDN	c 373	19.6	46.7	42104	11	ACN44606	Acn44606 Human gen
301	20.2	48.1	7874	12	ADO20498	Ado20498 Human PRO	c 374	19.6	46.7	44001	4	AAK74850	Aak74850 Human imm
302	20.2	48.1	10857	8	ACA43714	Aca43714 Prokaryot	c 375	19.6	46.7	63155	10	ADC85996	Adc85996 Human GPC
303	20.2	48.1	17170	4	AAK77880	Aak77880 Human imm	c 376	19.6	46.7	63761	13	ABD33426	Abd33426 Murine ca
304	20.2	48.1	17173	4	AAK77881	Aak77881 Human imm	c 377	19.6	46.7	122888	6	ABK93569	Abk83569 Human cDN
305	20	47.6	463	6	ABK63232	Abk63232 Rat seque	c 378	19.6	46.7	349980	5	AAH68528	Aah68528 C. glutami
306	20	47.6	463	13	ADV40608	Adv40608 Rat cardi	c 379	19.4	46.2	589	13	AAU54210	Aau54210 Fusarium
c 307	20	47.6	765	3	AAC50425	Aac50425 Arabidops	c 380	19.4	46.2	589	14	ADU54210	Adu54210 Fusarium
c 308	20	47.6	765	3	AAC41213	Aac41213 Arabidops	c 381	19.4	46.2	589	14	ADU54210	Adu54210 Fusarium
c 309	20	47.6	1057	13	ADL13825	Adl13825 Plant ful	c 382	19.4	46.2	597	13	ACN46210	Acn46210 Cotton pr
c 310	20	47.6	1176	13	ADX27329	Adx27329 Plant ful	c 383	19.4	46.2	786	10	ADC77515	Adc77515 Zebrafish
c 311	20	47.6	1178	13	ADX45876	Adx45876 Plant ful	c 384	19.4	46.2	816	4	ABL11677	Ab111677 Drosophil

C 385	19.4	46.2	1412	13	ADS50913	Adg50913 Bacterial
C 386	19.4	46.2	1602	2	AAV60843	Rat acid
C 387	19.4	46.2	1602	3	AAV61201	CDNA enco
C 388	19.4	46.2	1602	3	AAV61201	Rat cdna
C 389	19.4	46.2	1602	12	ADN97425	Rat DRASI
C 390	19.4	46.2	1719	12	ADN74570	Thale cre
C 391	19.4	46.2	1807	13	ADN62356	Plant ful
C 392	19.4	46.2	1843	4	ABL12291	Drosophil
C 393	19.4	46.2	2405	4	ABL11118	Drosophil
C 394	19.4	46.2	2515	10	ADT77516	Adc77516 Zebratfish
C 395	19.4	46.2	2616	8	ADA71309	Rice gene
C 396	19.4	46.2	2876	4	ABL11676	Drosophil
C 397	19.4	46.2	2886	4	ABL13232	Drosophil
C 398	19.4	46.2	3013	4	ABL18722	Drosophil
C 399	19.4	46.2	3588	4	ABL06015	Drosophil
C 400	19.4	46.2	5224	4	ABL12290	Drosophil
C 401	19.4	46.2	5637	13	ADN06878	Full leng
C 402	19.4	46.2	5996	4	ABL06014	Drosophil
C 403	19.4	46.2	10976	13	ABD32650	Human can
C 404	19.4	46.2	11796	8	ABX10231	Human cdn
C 405	19.4	46.2	11796	10	ADG33785	Human cdn
C 406	19.4	46.2	14117	6	ABL64107	Breast ca
C 407	19.4	46.2	23271	13	ACN37213	Human per
C 408	19.4	46.2	26147	11	ACN44862	Human gen
C 409	19.4	46.2	48765	12	ADJ61643	Concateme
C 410	19.4	46.2	8600	12	ADP68568	Human ppa
C 411	19.4	46.2	107330	12	ADQ97316	Mouse can
C 412	19.2	45.7	234	8	ABX40492	Bovine ES
C 413	19.2	45.7	270	8	ACA35250	Prokaryot
C 414	19.2	45.7	357	11	ABD00701	Klebsiell
C 415	19.2	45.7	390	8	ACA29964	Prokaryot
C 416	19.2	45.7	428	4	ASA23040	DNA enco
C 417	19.2	45.7	435	11	ABD00723	Klebsiell
C 418	19.2	45.7	449	13	ACF84217	Human SIR
C 419	19.2	45.7	498	11	ACN92223	Breast ca
C 420	19.2	45.7	592	3	AAF14481	Aspergill
C 421	19.2	45.7	592	13	ADU58522	Aspergill
C 422	19.2	45.7	592	14	ADZ96525	Aspergill
C 423	19.2	45.7	594	12	ADN73608	Thale cre
C 424	19.2	45.7	725	4	ALU15521	Human bre
C 425	19.2	45.7	730	6	ABQ65532	Arabidops
C 426	19.2	45.7	758	4	ALU24365	Human bre
C 427	19.2	45.7	839	11	ACN85510	Breast ca
C 428	19.2	45.7	1155	2	AAZ09784	E. coli S
C 429	19.2	45.7	1155	4	AAZ52561	E. coli D
C 430	19.2	45.7	1155	4	AAZ99433	Met K oli
C 431	19.2	45.7	1155	8	ACA32624	Prokaryot
C 432	19.2	45.7	1155	13	ADL17315	E. coli S
C 433	19.2	45.7	1155	13	ADT48800	Bacterial
C 434	19.2	45.7	1278	13	ADX23061	Plant ful
C 435	19.2	45.7	1383	11	ABD12593	Pseudomon
C 436	19.2	45.7	1554	8	ADA69876	Rice gene
C 437	19.2	45.7	1618	13	ADG61056	Bacterial
C 438	19.2	45.7	1656	13	ADR85543	Aspergill
C 439	19.2	45.7	1723	14	AE667511	Rice geno
C 440	19.2	45.7	1749	11	ABD12451	Pseudomon
C 441	19.2	45.7	1760	13	ABD84956	Aspergill
C 442	19.2	45.7	1988	4	ABL23259	Drosophil
C 443	19.2	45.7	2577	5	AAZ94403	DNA enco
C 444	19.2	45.7	2577	5	AAZ90256	DNA enco
C 445	19.2	45.7	2600	11	ADM02891	Human cdn
C 446	19.2	45.7	2840	4	ABL26812	Drosophil
C 447	19.2	45.7	2853	5	AAZ85725	DNA enco
C 448	19.2	45.7	2911	3	AAZ294751	Human ATP
C 449	19.2	45.7	3206	12	ADP90665	Mouse ext
C 450	19.2	45.7	3720	2	AAZ09790	Plasmid p
C 451	19.2	45.7	4045	4	ABL23258	Drosophil
C 452	19.2	45.7	4975	2	AAZ09792	Plasmid p
C 453	19.2	45.7	5568	10	ADF69153	Human MP5
C 454	19.2	45.7	5572	9	ACF36032	Human Ana
C 455	19.2	45.7	5572	12	ADG08786	Human Ana
C 456	19.2	45.7	6027	14	ADV43945	Human psy
C 457	19.2	45.7	6441	14	ADV43944	Human psy
C 458	19.2	45.7	6540	4	ABL23256	Drosophil
C 459	19.2	45.7	6704	13	ADP55321	Human PRO
C 460	19.2	45.7	6891	10	ADP82715	Leukaemia
C 461	19.2	45.7	7760	13	ADR84369	Aspergill
C 462	19.2	45.7	12354	4	AAZ46267	DNA enco
C 463	19.2	45.7	12354	4	AAZ46263	DNA enco
C 464	19.2	45.7	12354	4	AAZ46261	DNA enco
C 465	19.2	45.7	12354	11	ACN44470	Human gen
C 466	19.2	45.7	45960	11	ACN44272	Mouse gen
C 467	19.2	45.7	51193	14	AEA61136	Human KIA
C 468	19.2	45.7	64135	13	ABD33383	Murine ca
C 469	19.2	45.7	68497	11	ACN45212	Mouse gen
C 470	19.2	45.7	110000	14	ADZ45062	Continuation (7 of
C 471	19.2	45.7	12923	11	ACN44026	Human gen
C 472	19.2	45.7	149612	11	ACN45154	Human gen
C 473	19.2	45.2	318	5	AAF65868	Novel hum
C 474	19.2	45.2	350	4	AAZ5079	Human ova
C 475	19.2	45.2	393	5	ADL63405	Human ova
C 476	19.2	45.2	409	5	ADL72692	Human ova
C 477	19.2	45.2	409	5	ADL37831	Human ova
C 478	19.2	45.2	456	5	AAH83724	Human ova
C 479	19.2	45.2	473	5	ADL44215	Human ova
C 480	19.2	45.2	522	6	ABQ59078	Human col
C 481	19.2	45.2	526	6	ABK39174	CDNA enco
C 482	19.2	45.2	526	8	ACA11503	Human lun
C 483	19.2	45.2	526	8	ACA02689	Lung can
C 484	19.2	45.2	526	10	ADH46731	Human lun
C 485	19.2	45.2	526	13	ADJ20650	Human lun
C 486	19.2	45.2	562	6	ABK39139	CDNA enco
C 487	19.2	45.2	562	8	ACA11468	Human lun
C 488	19.2	45.2	562	8	ACA02654	Lung can
C 489	19.2	45.2	562	10	ADH46696	Human lun
C 490	19.2	45.2	562	13	ADJ20615	Human lun
C 491	19.2	45.2	585	6	ABSS51610	Human cdn
C 492	19.2	45.2	605	14	ACLS5519	Human col
C 493	19.2	45.2	636	8	ACA57112	Human adi
C 494	19.2	45.2	642	6	ABSS51593	Human cdn
C 495	19.2	45.2	654	8	ACA57045	Human adi
C 496	19.2	45.2	657	8	ACA57385	Human adi
C 497	19.2	45.2	680	8	ACA57034	Human adi
C 498	19.2	45.2	700	4	AAH92418	Human inf
C 499	19.2	45.2	777	8	ACA57301	Human adi
C 500	19.2	45.2	868	8	ACA57249	Human adi

## ALIGNMENTS

## RESULT 1

ABK24750/c  
ID ABK24750 standard; DNA; 121 BP.

XX  
AC ABK24750;

XX  
DT 09-APR-2002 (first entry)

XX  
DE Glyphosate resistance conferring genome altering oligonucleotide #110.

XX Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss;  
XX o-methyl modification; LNA modification; phosphorothioate linkage;  
XX DNA repair; DNA alteration; environmental tolerance; hygromycin-B;  
XX amino acid over production; herbicide resistance; glyphosate resistance;  
XX imidazolinone herbicide resistance; triazine herbicide resistance;  
XX porphyrin herbicide resistance; modified starch production; wax starch;  
XX modified oil production; modified starch production; disease resistance;  
XX altered floral morphology; male-sterile plant; albino mutant;  
XX modified fatty acid content; reduced palmitate production; albino plant;  
XX increased stearate production; reduced linolenic acid production;  
XX photosynthetic process.  
XX Hordeum vulgare.  
OS Synthetic.

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 17:40:11 ; Search time 5188.62 Seconds  
(without alignments)  
378.725 Million cell updates/sec

Title: US-10-805-973-12  
Perfect score: 42  
Sequence: 1 cagctgctgctatgatcc.....acgggtgctttcaaggac 42

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 41078325 segs, 23393541228 residues

Total number of hits satisfying chosen parameters: 82156650

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 500 summaries

Database :

EST:  
1: gb\_est1.\*  
2: gb\_est2.\*  
3: gb\_est3.\*  
4: gb\_hic.\*  
5: gb\_est4.\*  
6: gb\_est5.\*  
7: gb\_est6.\*  
8: gb\_est7.\*  
9: gb\_est8.\*  
10: gb\_ges2.\*  
11: gb\_ges3.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	40.4	96.2	367	5	BQ762109 EBPi01.SQ
2	40.4	96.2	420	1	AJ475726
3	40.4	96.2	429	5	BQ972552 HB21P15r
4	40.4	96.2	462	8	CK629678 GCM003B24
5	40.4	96.2	485	6	CA721426 wdk9n.pk0
6	40.4	96.2	517	5	CA012924 HT06N21r
7	40.4	96.2	528	1	AV942818
8	40.4	96.2	530	2	BE417248
9	40.4	96.2	536	6	CA735255
10	40.4	96.2	543	5	BU985874
11	40.4	96.2	560	6	CA735222 wpl1s.pk0
12	40.4	96.2	568	5	CA001228
13	40.4	96.2	568	5	CA001528
14	40.4	96.2	614	5	BU989646
15	40.4	96.2	615	1	AV936190
16	40.4	96.2	615	7	CV057250
17	40.4	96.2	620	3	BJ468205
18	40.4	96.2	623	7	CV058653
19	40.4	96.2	670	3	BJ296872
20	40.4	96.2	672	3	BU465087
21	40.4	96.2	674	8	DN179983
22	40.4	96.2	678	1	AV945607

DN186674	700	96.2	40.4	C 23	DN186674
CK157744	894	96.2	40.4	C 24	CK157744
CK166638	1147	96.2	40.4	C 25	CK166638
CK167615	1149	96.2	40.4	C 26	CK167615
CK167307	1160	96.2	40.4	C 27	CK167307
CK168204	1198	96.2	40.4	C 28	CK168204
CA703794	396	93.8	39.4	C 29	CA703794
AU089907	443	93.8	39.4	C 30	AU089907
FK0158704	906	93.8	39.4	C 31	FK0158704
CA741112	492	92.4	38.8	C 32	CA741112
AJ610886	526	92.4	38.8	C 33	AJ610886
BJ218387	593	92.4	38.8	C 34	BJ218387
CN010201	613	92.4	38.8	C 35	CN010201
BG905270	664	92.4	38.8	C 36	BG905270
TALr1138E	664	92.4	38.8	C 37	TALr1138E
BM137990	696	92.4	38.8	C 38	BM137990
BJ220643	727	92.4	38.8	C 39	BJ220643
CK155817	879	92.4	38.8	C 40	CK155817
CK156269	879	92.4	38.8	C 41	CK156269
AV934678	273	90.0	37.8	C 42	AV934678
BF200418	460	88.6	37.2	C 43	BF200418
CD453275	721	88.6	37.2	C 44	CD453275
CN820002	570	84.8	35.6	C 45	CN820002
CK264732	676	84.8	35.6	C 46	CK264732
CN819919	780	81.0	34	C 47	CN819919
CZ694312	820	77.1	32.4	C 48	CZ694312
CF576878	518	78.6	33	C 49	CF576878
CA228285	802	78.6	33	C 50	CA228285
CV292554	898	78.6	33	C 51	CV292554
CV291176	910	77.1	32.4	C 52	CV291176
C28005	446	77.1	32.4	C 53	C28005
AU172494	463	77.1	32.4	C 54	AU172494
CK036599	554	77.1	32.4	C 55	CK036599
CK102310	559	77.1	32.4	C 56	CK102310
CK040671	601	77.1	32.4	C 57	CK040671
CK037714	617	77.1	32.4	C 58	CK037714
CB656902	706	77.1	32.4	C 59	CB656902
AU162002	708	77.1	32.4	C 60	AU162002
CB630252	816	77.1	32.4	C 61	CB630252
CB683493	855	77.1	32.4	C 62	CB683493
CZ671547	897	77.1	32.4	C 63	CZ671547
CZ134246	1935	77.1	32.4	C 64	CZ134246
CL967368	165	74.8	31.4	C 65	CL967368
CF046041	165	74.8	31.4	C 66	CF046041
CF047097	165	74.8	31.4	C 67	CF047097
BE638205	359	74.8	31.4	C 68	BE638205
CD92175	380	74.8	31.4	C 69	CD92175
AW651554	385	74.8	31.4	C 70	AW651554
AI942110	397	74.8	31.4	C 71	AI942110
AW054309	398	74.8	31.4	C 72	AW054309
CF051338	399	74.8	31.4	C 73	CF051338
CD572887	403	74.8	31.4	C 74	CD572887
AW165578	406	74.8	31.4	C 75	AW165578
CA399158	418	74.8	31.4	C 76	CA399158
AW179434	445	74.8	31.4	C 77	AW179434
AI586411	461	74.8	31.4	C 78	AI586411
CD573366	461	74.8	31.4	C 79	CD573366
BM378794	466	74.8	31.4	C 80	BM378794
CM484597	475	74.8	31.4	C 81	CM484597
AI664983	488	74.8	31.4	C 82	AI664983
BE592668	489	74.8	31.4	C 83	BE592668
AW651573	492	74.8	31.4	C 84	AW651573
AW056264	501	74.8	31.4	C 85	AW056264
AW031654	502	74.8	31.4	C 86	AW031654
CA398508	506	74.8	31.4	C 87	CA398508
CD573025	516	74.8	31.4	C 88	CD573025
AI714835	524	74.8	31.4	C 89	AI714835
CD433156	529	74.8	31.4	C 90	CD433156
CA400973	530	74.8	31.4	C 91	CA400973
AI676970	533	74.8	31.4	C 92	AI676970
BM330609	558	74.8	31.4	C 93	BM330609
CD448537	569	74.8	31.4	C 94	CD448537
AI673901	581	74.8	31.4	C 95	AI673901
AI665367	582	74.8	31.4	C 96	AI665367

c 96	31.4	74.8	596	6	CD448254	CD448254 EK07D2305	169	29.8	71.0	562	6	CD991301	CD991301 QBA102a10
c 97	31.4	74.8	603	9	A2920691	A2920691 1006021B0	170	29.8	71.0	595	3	CN927803	CN927803 000530AEP
c 98	31.4	74.8	608	1	AI649964	AI649964 486099H10	c 171	29.8	71.0	621	3	BM403819	BM403819 EST578146
c 99	31.4	74.8	615	8	DN586540	DN586540 EST6531 Z	c 172	29.8	71.0	621	8	DR990193	DR990193 Mdl1-7003I
c 100	31.4	74.8	619	2	BG267097	BG267097 1000111C0	c 173	29.8	71.0	688	8	DR995295	DR995295 Mda99008N
c 101	31.4	74.8	623	4	AV111601	AV111601 Zea mays	c 174	29.8	71.0	708	2	BG594006	BG594006 EST492684
c 102	31.4	74.8	624	7	C0381349	C0381349 FRA0878 S	c 175	29.8	71.0	708	5	BQ508270	BQ508270 EST615685
c 103	31.4	74.8	629	6	CD425542	CD425542 SAI_13_B0	c 176	29.8	71.0	775	5	BQ508270	BQ508270 EST615685
c 104	31.4	74.8	630	1	AW564249	AW564249 LCI_285_G	c 177	29.8	71.0	860	8	KN980226	KN980226 SV6_23G12
c 105	31.4	74.8	636	6	CF073461	CF073461 FBI_10_E1	c 178	29.8	71.0	907	8	KN980226	KN980226 SV6_23G12
c 106	31.4	74.8	638	6	CF022127	CF022127 QBQ06f10	c 179	29.8	71.0	154	2	BI125879	BI125879 1067P30P
c 107	31.4	74.8	648	1	AI677107	AI677107 605049P08	c 180	29.8	71.0	275	7	CV651183	CV651183 60233_1 L
c 108	31.4	74.8	648	6	CF627002	CF627002 zmr-ws05 O	c 181	29.8	71.0	432	7	CK095055	CK095055 1067P30_5
c 109	31.4	74.8	651	2	BG356377	BG356377 EM1_21_G0	c 182	29.8	71.0	441	6	CD668243	CD668243 eealc_Pk0
c 110	31.4	74.8	684	6	CD221171	CD221171 CCGH_74_F	c 183	29.8	71.0	465	3	BM060537	BM060537 KS01015F0
c 111	31.4	74.8	686	6	DN215004	DN215004 MEST906_C	c 184	29.8	71.0	466	3	CV230784	CV230784 WS0192.B2
c 112	31.4	74.8	692	8	DR796514	DR796514 ZM_BFB001	c 185	29.8	71.0	487	7	CV049970	CV049970 EST_9425
c 113	31.4	74.8	695	6	CD425934	CD425934 SAI_15_B0	c 186	29.8	71.0	488	7	CK105002	CK105002 1067P30_5
c 114	31.4	74.8	697	6	CD002275	CD002275 EST0281_N	c 187	29.8	71.0	542	6	CF227820	CF227820 PtaXMO005
c 115	31.4	74.8	707	6	CD444856	CD444856 EL01N0444	c 188	29.8	71.0	564	8	DN619881	DN619881 UCRCS11_0
c 116	31.4	74.8	711	6	CA402278	CA402278 EL01N0434	c 189	29.8	71.0	566	7	CN188923	CN188923 UCRCS06_0
c 117	31.4	74.8	711	6	CD444264	CD444264 EL01N0437	c 190	29.8	71.0	585	5	B0869375	B0869375 M129D03_P
c 118	31.4	74.8	713	6	CB347071	CB347071 CAB2SG000	c 191	29.8	71.0	585	5	B0869375	B0869375 M129D03_P
c 119	31.4	74.8	715	6	CA401806	CA401806 EL01N0426	c 192	29.8	71.0	595	7	CN184453	CN184453 UCRCS04_0
c 120	31.4	74.8	718	8	DN211329	DN211329 MEST923_E	c 193	29.8	71.0	610	8	DN620592	DN620592 UCRCS11_0
c 121	31.4	74.8	719	6	CA402947	CA402947 EL01N0444	c 194	29.8	71.0	619	8	CK292081	CK292081 C04010C06
c 122	31.4	74.8	719	8	DN225678	DN225678 MEST1178	c 195	29.8	71.0	630	5	BQ415724	BQ415724 GA_Ed010
c 123	31.4	74.8	725	10	CG100617	CG100617 PUFOF10TB	c 196	29.8	71.0	630	5	KN185745	KN185745 UCRCS05_0
c 124	31.4	74.8	725	10	CG100620	CG100620 PUFOF10TD	c 197	29.8	71.0	630	7	CO105130	CO105130 GR_EB003
c 125	31.4	74.8	730	8	DR959254	DR959254 ZM_BFB007	c 198	29.8	71.0	631	7	CV238240	CV238240 WS0125_B2
c 126	31.4	74.8	731	9	CG637631	CG637631 OGFT59TH	c 199	29.8	71.0	643	7	CN189479	CN189479 UCRCS06_0
c 127	31.4	74.8	765	7	CK720583	CK720583 LEBG101E0	c 200	29.8	71.0	650	7	CV709302	CV709302 UCRPT01_0
c 128	31.4	74.8	770	8	DN217229	DN217229 MEST1048_	c 201	29.8	71.0	655	8	DN625008	DN625008 UCRCS01_0
c 129	31.4	74.8	775	6	CB979005	CB979005 CAB40006_	c 202	29.8	71.0	662	8	DR064694	DR064694 ip85608_9
c 130	31.4	74.8	801	9	CG664967	CG664967 OGJBG46TV	c 203	29.8	71.0	674	7	CO072490	CO072490 GR_EA31L
c 131	31.4	74.8	803	6	CB978934	CB978934 CAB40006_	c 204	29.8	71.0	682	7	CF834186	CF834186 UCRCS02_0
c 132	31.4	74.8	829	2	BG320234	BG320234 Zm03_03h0	c 205	29.8	71.0	683	8	DN942154	DN942154 568_3 Tub
c 133	31.4	74.8	862	6	CF210611	CF210611 CAB30006_	c 206	29.8	71.0	685	8	DR404228	DR404228 CSAG-PNP1
c 134	31.4	74.8	886	10	CG436261	CG436261 OGSEA32TV	c 207	29.8	71.0	685	8	CV704723	CV704723 UCRPT01_0
c 135	31.4	74.8	896	8	DR732290	DR732290 FGAS07821	c 208	29.8	71.0	691	6	CB820099	CB820099 EST_1091
c 136	31.4	74.8	903	6	CD46738	CD46738 EL01T0206	c 209	29.8	71.0	695	6	CB820099	CB820099 EST_1091
c 137	31.4	74.8	926	6	CF210526	CF210526 CAB20006_	c 210	29.8	71.0	705	7	CO115154	CO115154 GR_EB016
c 138	31.4	74.8	2673	4	AV109387	AV109387 Zea mays	c 211	29.8	71.0	724	1	AJ833555	AJ833555 AJ833555
c 139	30.8	73.3	526	6	CA646258	CA646258 wreln_Pk0	c 212	29.8	71.0	724	7	CV711180	CV711180 UCRPT01_0
c 140	30.8	73.3	727	10	CL748539	CL748539 OR_EBA011	c 213	29.8	71.0	745	8	CX542911	CX542911 UCRPT01_5
c 141	30.8	73.3	1989	8	DN206827	DN206827 MEST839_G	c 214	29.8	71.0	749	7	CF834188	CF834188 UCRCS02_0
c 142	30.4	72.4	657	8	DN206827	DN206827 MEST839_G	c 215	29.8	71.0	768	7	CV708672	CV708672 UCRPT01_0
c 143	30.4	72.4	853	7	CV290995	CV290995 aof01-16m	c 216	29.8	71.0	769	7	CV708672	CV708672 UCRPT01_0
c 144	30.4	72.4	931	7	CV290995	CV290995 aof01-16m	c 217	29.8	71.0	774	7	CV708672	CV708672 UCRPT01_0
c 145	29.8	71.0	353	7	CO868106	CO868106 Mdfct3040	c 218	29.8	71.0	806	7	CF834187	CF834187 UCRCS02_0
c 146	29.8	71.0	366	7	CV475844	CV475844 24469_1 D	c 219	29.8	71.0	820	7	CF834187	CF834187 UCRCS02_0
c 147	29.8	71.0	368	3	BM328450	BM328450 PIC1_29_D	c 220	29.8	71.0	829	7	CF829334	CF829334 UCRCS01_0
c 148	29.8	71.0	368	8	DN998613	DN998613 MdfB0071	c 221	29.8	71.0	829	7	CV282040	CV282040 WS0183_B2
c 149	29.8	71.0	401	8	DN590383	DN590383 91279_1 L	c 222	29.8	71.0	861	8	CX666319	CX666319 UCRCP01_0
c 150	29.8	71.0	415	7	CN580930	CN580930 Mdfw2030P	c 223	29.8	71.0	864	8	CX667530	CX667530 UCRCP01_0
c 151	29.8	71.0	446	7	CO068527	CO068527 Mdfct3030	c 224	29.8	71.0	890	8	CX545743	CX545743 UCRPT01_5
c 152	29.8	71.0	446	7	CO068527	CO068527 Mdfct3033	c 225	29.8	71.0	890	8	CX545743	CX545743 UCRPT01_5
c 153	29.8	71.0	461	7	CV928137	CV928137 000531AEP	c 226	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 154	29.8	71.0	481	6	CB346991	CB346991 CAB2SG000	c 227	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 155	29.8	71.0	502	7	CV005931	CV005931 csa02-2mb	c 228	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 156	29.8	71.0	504	6	CA836461	CA836461 MCU007E10	c 229	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 157	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 230	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 158	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 231	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 159	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 232	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 160	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 233	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 161	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 234	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 162	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 235	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 163	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 236	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 164	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 237	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 165	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 238	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 166	29.8	71.0	507	6	CA836461	CA836461 MCU007E10	c 239	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 167	29.8	71.0	525	7	CN928155	CN928155 000531AEP	c 240	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100
c 168	29.8	71.0	545	6	CA836281	CA836281 MCU005E12	c 241	29.8	71.0	907	8	CA293769	CA293769 SCSGLV100



C 242	26.6	63.3	396	3	BP639038	BP639038	C 315	26	61.9	714	2	BG857062	BG857062	1024049F1
C 243	26.6	63.3	399	1	AV820432	AV820432	C 316	26	61.9	718	2	BG851881	BG851881	1024032F0
C 244	26.6	63.3	398	1	AV558823	AV558823	C 317	25.2	60.0	892	8	DR732145	DR732145	FGA507806
C 245	26.6	63.3	400	3	BP526165	BP526165	C 318	25	59.5	266	3	BP137276	BP137276	BP137276
C 246	26.6	63.3	403	1	AV800385	AV800385	C 319	25	59.5	290	2	BG625867	BG625867	CC-ebf1cL
C 247	26.6	63.3	403	1	AV806330	AV806330	C 320	25	59.5	338	6	CD002471	CD002471	EST0500 N
C 248	26.6	63.3	403	6	CB262301	66-E97777-	C 321	25	59.5	351	3	BP135618	BP135618	BP135618
C 249	26.6	63.3	404	1	AV813612	AV813612	C 322	25	59.5	351	3	BP137051	BP137051	BP137051
C 250	26.6	63.3	405	1	AV814504	AV814504	C 323	25	59.5	351	3	BP137051	BP137051	CC-ebf1cL
C 251	26.6	63.3	406	3	BP588976	BP588976	C 324	25	59.5	375	3	BP527351	BP527351	BP527351
C 252	26.6	63.3	407	3	BP582353	BP582353	C 325	25	59.5	381	3	BP132534	BP132534	BP132534
C 253	26.6	63.3	410	3	BP784977	BP784977	C 326	25	59.5	395	1	AV806433	AV806433	AV806433
C 254	26.6	63.3	411	1	AV810076	AV810076	C 327	25	59.5	397	1	AV807965	AV807965	AV807965
C 255	26.6	63.3	411	1	BP575066	BP575066	C 328	25	59.5	407	1	BP785780	BP785780	BP785780
C 256	26.6	63.3	412	1	AV802206	AV802206	C 329	25	59.5	437	3	BP575244	BP575244	BP575244
C 257	26.6	63.3	415	7	CV518281	0089P0010	C 330	25	59.5	440	3	BP595464	BP595464	BP595464
C 258	26.6	63.3	416	1	AV799766	AV799766	C 331	25	59.5	443	7	CN741392	CN741392	SAL_US004
C 259	26.6	63.3	420	3	BP591640	BP591640	C 332	25	59.5	450	8	DR575300	DR575300	WS00740.C
C 260	26.6	63.3	421	1	AV799177	AV799177	C 333	25	59.5	461	1	AI771599	AI771599	EST252699
C 261	26.6	63.3	421	3	BP781517	BP781517	C 334	25	59.5	479	3	BP890459	BP890459	BP890459
C 262	26.6	63.3	424	3	BP594131	BP594131	C 335	25	59.5	482	7	CV500307	CV500307	64750.1 M
C 263	26.6	63.3	426	3	BP612534	BP612534	C 336	25	59.5	483	3	BP891482	BP891482	BP891482
C 264	26.6	63.3	428	3	BP794161	BP794161	C 337	25	59.5	486	3	BP897073	BP897073	BP897073
C 265	26.6	63.3	433	3	BP584750	BP584750	C 338	25	59.5	488	7	CO224456	CO224456	WS01021.B
C 266	26.6	63.3	434	3	BP564014	BP564014	C 339	25	59.5	494	6	CD003072	CD003072	EST1132 N
C 267	26.6	63.3	434	3	BP589493	BP589493	C 340	25	59.5	499	7	CO086439	CO086439	GR_Ea04G
C 268	26.6	63.3	434	3	BP666379	BP666379	C 341	25	59.5	504	8	DR589636	DR589636	WS00826 B
C 269	26.6	63.3	437	8	DN773480	E1121 [C1	C 342	25	59.5	545	7	CN640384	CN640384	268009.55
C 270	26.6	63.3	437	3	BP607174	BP607174	C 343	25	59.5	565	7	CO214540	CO214540	WS00928.B
C 271	26.6	63.3	447	1	AV544678	AV544678	C 344	25	59.5	634	3	BI422702	BI422702	EST533368
C 272	26.6	63.3	449	3	BP581704	BP581704	C 345	25	59.5	665	7	CO108687	CO108687	GR_EB004
C 273	26.6	63.3	454	3	BP581739	BP581739	C 346	25	59.5	772	7	CO107822	CO107822	GR_EB003
C 274	26.6	63.3	455	3	BP592602	BP592602	C 347	25	59.5	704	8	DR520958	DR520958	WS02778 BR
C 275	26.6	63.3	455	8	CK044447	UCRCS07_1	C 348	25	59.5	705	7	CK269951	CK269951	ESW716029
C 276	26.6	63.3	456	3	BP597091	BP597091	C 349	25	59.5	716	8	DR539024	DR539024	WS02778.B2
C 277	26.6	63.3	477	1	AV441265	AV441265	C 350	25	59.5	753	7	CO107899	CO107899	GR_EB003
C 278	26.6	63.3	523	1	AV541212	AV541212	C 351	25	59.5	763	8	DR508226	DR508226	WS02771.B
C 279	26.6	63.3	525	10	AL765106	ArabicDrops	C 352	25	59.5	772	7	CO107822	CO107822	GR_EB003
C 280	26.6	63.3	529	8	CK305069	CK305069	C 353	25	59.5	780	7	CO123195	CO123195	GR_EB05D
C 281	26.6	63.3	538	1	AV540418	AV540418	C 354	25	59.5	787	7	CO239745	CO239745	WS0076.B2
C 282	26.6	63.3	571	5	BQ846849	BQ846849	C 355	25	59.5	857	8	DR515361	DR515361	WS02740.C
C 283	26.6	63.3	589	1	AV543592	AV543592	C 356	25	59.5	857	8	DR505895	DR505895	WS02715.B
C 284	26.6	63.3	591	6	CB261978	79-E8880-	C 357	24.8	59.0	917	11	CNS0408T	CNS0408T	Tetraodon
C 285	26.6	63.3	596	6	CB261978	79-E8880-	C 358	24.4	58.1	405	3	BP134194	BP134194	BP134194
C 286	26.6	63.3	605	1	AI998757	701546821	C 359	24.4	58.1	500	2	BE129450	BE129450	894023C08
C 287	26.6	63.3	630	7	CN730853	24RDBNH U	C 360	24	57.1	640	7	CK313563	CK313563	SB02038A1
C 288	26.6	63.3	642	9	BH510816	BH510816	C 361	24	57.1	750	7	CK312167	CK312167	SB02038A1
C 289	26.6	63.3	680	8	DN238614	MUC4LH100	C 362	23.8	56.7	658	2	BF645529	BF645529	NF023A04E
C 290	26.6	63.3	686	8	CK189179	77-E02450	C 363	23.8	56.7	668	5	BU040864	BU040864	PP_LEA000
C 291	26.6	63.3	697	7	CV278074	WS0145.B2	C 364	23.8	56.7	1018	7	CF881353	CF881353	tr1c026exp
C 292	26.6	63.3	707	7	CV278074	WS0145.B2	C 365	23.6	56.2	260	2	BG625873	BG625873	CC-ebf1cL
C 293	26.6	63.3	772	7	CF834185	CF834185	C 366	23.6	56.2	334	2	BG628326	BG628326	CC-ebf1cL
C 294	26.6	63.3	824	2	EB037543	AU01A04_A	C 367	23.6	56.2	715	2	BF135307	BF135307	601781985
C 295	26.6	63.3	845	7	CV265191	WS02026.B	C 368	23.4	55.7	123	6	CD860678	CD860678	TE_005108
C 296	26.6	63.3	1037	6	CA794724	Cac BL 10	C 369	23.4	55.7	327	3	BP130508	BP130508	BP130508
C 297	26.4	62.9	438	1	AU089946	AU089946	C 370	23.4	55.7	327	1	AV419029	AV419029	AV419029
C 298	26	61.9	465	3	BI531493	1024114B0	C 371	23.4	55.7	334	10	CG535249	CG535249	OST122232
C 299	26	61.9	504	3	BM000797	BM000797	C 372	23.4	55.7	338	6	CD851280	CD851280	DH0AL10Z
C 300	26	61.9	509	3	BI531492	BI531492	C 373	23.4	55.7	340	1	AJ828880	AJ828880	AJ828880
C 301	26	61.9	541	1	AV390968	AV390968	C 374	23.4	55.7	346	3	BP136307	BP136307	BP136307
C 302	26	61.9	585	3	BI727283	BI727283	C 375	23.4	55.7	390	6	CD851082	CD851082	DH0AL62A0
C 303	26	61.9	588	3	BI721578	BI721578	C 376	23.4	55.7	435	6	CF392952	CF392952	RTDR3_18
C 304	26	61.9	592	3	BI998372	1031056G0	C 377	23.4	55.7	441	3	BP028895	BP028895	RTDR3_18
C 305	26	61.9	617	3	BI721577	1031056G0	C 378	23.4	55.7	454	2	BE187324	BE187324	XXNV_162
C 306	26	61.9	629	1	AI799130	AI799130	C 379	23.4	55.7	508	3	BP038820	BP038820	XXNV_162
C 307	26	61.9	645	3	BI724090	BI724090	C 380	23.4	55.7	510	1	AU299857	AU299857	AU299857
C 308	26	61.9	651	1	AJ802506	AJ802506	C 381	23.4	55.7	516	3	BP036024	BP036024	BP036024
C 309	26	61.9	654	3	BI875002	BI875002	C 382	23.4	55.7	521	1	AU085311	AU085311	AU085311
C 310	26	61.9	656	2	BG854747	BG854747	C 383	23.4	55.7	522	3	BQ605520	BQ605520	BQ605520
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## ALIGNMENTS

RESULT 1  
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LOCUS

DEFINITION

BQ762109 367 bp mRNA linear EST 26-JUL-2002  
EBP101\_SQ005\_G24\_R\_pistil, 1 DPA, no treatment, cv Optic, EBP101  
Hordeum vulgare subsp. vulgare cDNA clone EBP101\_SQ005\_G24\_5', mRNA  
sequence.

ACCESSION

BQ762109

VERSION

BQ762109.1

KEYWORDS

EST.

SOURCE

Hordeum vulgare subsp. vulgare

ORGANISM

Hordeum vulgare subsp. vulgare

REFERENCE

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Pooidae; Triticeae; Hordeum.

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Rangay, L., Machray, G., Marshall, D.F.M. and Waugh, R.

TITLE

Unpublished (2001)

JOURNAL

Development of Barley Transcriptome Resources

COMMENT

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FEATURES

Location/Qualifiers

source

1..367

GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: February 15, 2006, 18:01:15 ; Search time 145.136 Seconds  
(without alignments)  
514.397 Million cell updates/sec

Title: US-10-805-973-12

Perfect score: 42

Sequence: 1 cagctgtcctatgatccc.....acggtgtgttcaaggac 42

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database :

- Issued Patents NA.\*
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  - 9: /cgn2\_6/ptodata/1/ina/backfiles1.seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	34	81.0	182	3	US-10-258-842-12
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4	34	81.0	208	3	US-10-258-842-9
5	34	81.0	208	3	US-10-258-842-11
6	34	81.0	528	3	US-10-258-842-16
7	34	81.0	1986	3	US-10-258-842-18
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13	32.4	77.1	2301	3	US-10-258-842-2
14	31.4	74.8	1969	2	US-07-737-851-2
15	31.4	74.8	1969	2	US-07-737-851-3
16	31.4	74.8	1969	2	US-07-894-062-2
17	31.4	74.8	1969	2	US-07-894-062-3
18	31.4	74.8	1969	3	US-09-036-562-2
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21	28.2	67.1	2365	2	US-08-363-208-1
22	28.2	67.1	2365	3	US-09-137-478-1
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24	25	59.5	2156	2	US-08-321-356-3

c	25	23.6	56.2	68	3	US-09-193-612B-13	Sequence 13, Appl
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c	27	23.6	56.2	1095	3	US-10-258-842-1	Sequence 1, Appl
c	28	23.6	56.2	1985	3	US-10-258-842-20	Sequence 20, Appl
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c	66	19.8	47.1	1203	3	US-09-583-110-2419	Sequence 2419, Ap
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C 100	19	45.2	526	3	US-09-671-325-1212	Sequence 1212, Ap	C 173	18.8	44.8	112393	3	US-09-949-016-14514	Sequence 14514, A
C 101	19	45.2	526	3	US-09-658-824-1212	Sequence 1212, Ap	C 174	18.8	44.8	152393	3	US-09-949-016-14515	Sequence 14515, A
C 102	19	45.2	526	3	US-10-017-754-1212	Sequence 1212, Ap	C 175	18.8	44.8	156894	3	US-09-949-016-12765	Sequence 12765, A
C 103	19	45.2	526	3	US-09-651-563-1212	Sequence 1212, Ap	C 176	18.8	44.8	156894	3	US-09-949-016-12766	Sequence 12766, A
C 104	19	45.2	526	3	US-09-702-705-1177	Sequence 1177, Ap	C 177	18.8	44.8	156895	3	US-09-949-016-16957	Sequence 16957, A
C 105	19	45.2	526	3	US-09-736-457-1177	Sequence 1177, Ap	C 178	18.8	44.8	156895	3	US-09-949-016-16958	Sequence 16958, A
C 106	19	45.2	526	3	US-09-614-124B-1177	Sequence 1177, Ap	C 179	18.8	44.8	156895	3	US-09-949-016-16959	Sequence 16959, A
C 107	19	45.2	526	3	US-09-671-325-1177	Sequence 1177, Ap	C 180	18.8	44.8	153112	3	US-09-949-016-14184	Sequence 14184, A
C 108	19	45.2	526	3	US-09-658-824-1177	Sequence 1177, Ap	C 181	18.8	44.8	450395	3	US-09-949-016-15473	Sequence 15473, A
C 109	19	45.2	526	3	US-10-017-754-1177	Sequence 1177, Ap	C 182	18.8	44.8	767677	3	US-09-949-016-12147	Sequence 12147, A
C 110	19	45.2	526	3	US-09-651-563-1177	Sequence 1177, Ap	C 183	18.8	44.8	767677	3	US-09-949-016-17361	Sequence 17361, A
C 111	19	45.2	700	3	US-09-735-271-430	Sequence 430, App	C 184	18.6	44.3	461	3	US-09-270-767-8520	Sequence 8520, Ap
C 112	19	45.2	919	2	US-08-503-226B-34	Sequence 34, App	C 185	18.6	44.3	461	3	US-09-270-767-23802	Sequence 23802, A
C 113	19	45.2	919	3	US-08-721-458B-34	Sequence 34, App	C 186	18.6	44.3	601	3	US-09-949-016-73038	Sequence 73038, A
C 114	19	45.2	972	3	US-09-489-039A-1467	Sequence 1467, Ap	C 187	18.6	44.3	601	3	US-09-949-016-73040	Sequence 73040, A
C 115	19	45.2	981	2	US-08-503-226B-33	Sequence 33, Appl	C 188	18.6	44.3	601	3	US-09-949-016-73041	Sequence 73041, A
C 116	19	45.2	981	3	US-08-721-458B-33	Sequence 33, Appl	C 189	18.6	44.3	625	3	US-09-328-111-444	Sequence 444, App
C 117	19	45.2	1292	3	US-09-023-655-977	Sequence 977, App	C 190	18.6	44.3	1040	3	US-10-324-316-21	Sequence 21, Appl
C 118	19	45.2	1300	3	US-09-345-236B-38	Sequence 38, Appl	C 191	18.6	44.3	1440	3	US-09-248-796A-2937	Sequence 2937, Ap
C 119	19	45.2	1300	3	US-09-345-236B-40	Sequence 40, Appl	C 192	18.6	44.3	1773	3	US-09-248-796A-391	Sequence 391, App
C 120	19	45.2	1300	3	US-09-345-236B-42	Sequence 42, Appl	C 193	18.6	44.3	1990	3	US-10-104-047-809	Sequence 809, App
C 121	19	45.2	2912	3	US-09-949-016-4934	Sequence 4934, Ap	C 194	18.6	44.3	2244	3	US-10-104-047-1672	Sequence 1672, Ap
C 122	19	45.2	10486	3	US-09-902-540-997	Sequence 997, App	C 195	18.6	44.3	2830	3	US-09-221-017B-730	Sequence 730, App
C 123	19	45.2	12681	3	US-09-949-016-16576	Sequence 16576, A	C 196	18.6	44.3	4131	2	US-08-309-512-3	Sequence 3, Appli
C 124	19	45.2	13158	2	US-08-687-080-105	Sequence 105, App	C 197	18.6	44.3	4131	6	PCT-US92-08756A-3	Sequence 3, Appli
C 125	19	45.2	96327	3	US-09-949-016-16541	Sequence 16541, A	C 198	18.6	44.3	6589	3	US-09-949-016-4912	Sequence 4912, Ap
C 126	19	45.2	99960	3	US-09-762-311-2	Sequence 2, Appli	C 199	18.6	44.3	6589	3	US-09-949-016-4913	Sequence 4913, Ap
C 127	19	45.2	129127	3	US-09-949-016-13481	Sequence 13481, A	C 200	18.6	44.3	6589	3	US-09-949-016-4914	Sequence 4914, Ap
C 128	19	45.2	162841	3	US-09-949-016-13733	Sequence 13733, A	C 201	18.6	44.3	6752	3	US-09-949-016-879	Sequence 879, App
C 129	19	45.2	167708	3	US-09-949-016-16423	Sequence 16423, A	C 202	18.6	44.3	7098	3	US-09-949-016-878	Sequence 878, App
C 130	18.8	44.8	71	3	US-08-952-793-286	Sequence 296, App	C 203	18.6	44.3	7578	3	US-09-949-016-339	Sequence 339, App
C 131	18.8	44.8	71	3	US-09-949-016-178209	Sequence 296, App	C 204	18.6	44.3	38559	3	US-09-949-016-13384	Sequence 13384, A
C 132	18.8	44.8	71	6	PCT-US96-09455A-296	Sequence 296, App	C 205	18.6	44.3	38559	3	US-09-949-016-13385	Sequence 13385, A
C 133	18.8	44.8	82	3	US-09-242-690A-3	Sequence 3, Appli	C 206	18.6	44.3	38559	3	US-09-949-016-13386	Sequence 13386, A
C 134	18.8	44.8	82	3	US-09-908-855-3	Sequence 3, Appli	C 207	18.6	44.3	74353	3	US-09-949-016-15336	Sequence 15336, A
C 135	18.8	44.8	184	3	US-09-242-690A-2	Sequence 2, Appli	C 208	18.6	44.3	138693	3	US-09-949-016-16724	Sequence 16724, A
C 136	18.8	44.8	184	3	US-09-908-855-2	Sequence 2, Appli	C 209	18.6	44.3	131088	3	US-09-949-016-16240	Sequence 16240, A
C 137	18.8	44.8	184	3	US-09-242-690A-1	Sequence 1, Appli	C 210	18.6	44.3	215045	3	US-09-949-016-13875	Sequence 13875, A
C 138	18.8	44.8	192	3	US-09-908-855-1	Sequence 1, Appli	C 211	18.6	44.3	253364	3	US-09-949-016-12656	Sequence 12656, A
C 139	18.8	44.8	601	3	US-09-949-016-80619	Sequence 80619, A	C 212	18.6	44.3	253364	3	US-09-949-016-13639	Sequence 13639, A
C 140	18.8	44.8	601	3	US-09-949-016-95146	Sequence 95146, A	C 213	18.6	44.3	264665	3	US-09-949-016-13747	Sequence 13747, A
C 141	18.8	44.8	601	3	US-09-949-016-95146	Sequence 95146, A	C 214	18.4	43.8	441	3	US-08-726-807B-53	Sequence 53, Appl
C 142	18.8	44.8	601	3	US-09-949-016-132286	Sequence 132286, A	C 215	18.4	43.8	509	3	US-09-621-976-18244	Sequence 18244, A
C 143	18.8	44.8	601	3	US-09-949-016-178209	Sequence 178209, A	C 216	18.4	43.8	551	3	US-10-081-817A-19	Sequence 19, Appl
C 144	18.8	44.8	601	3	US-09-949-016-181761	Sequence 181761, A	C 217	18.4	43.8	601	3	US-09-949-016-92902	Sequence 92902, A
C 145	18.8	44.8	601	3	US-09-949-016-181880	Sequence 181880, A	C 218	18.4	43.8	601	3	US-09-949-016-135851	Sequence 135851, A
C 146	18.8	44.8	601	3	US-09-949-016-181999	Sequence 181999, A	C 219	18.4	43.8	601	3	US-09-949-016-135968	Sequence 135968, A
C 147	18.8	44.8	601	3	US-09-949-016-198892	Sequence 198892, A	C 220	18.4	43.8	601	3	US-09-949-016-136085	Sequence 136085, A
C 148	18.8	44.8	678	3	US-09-248-796A-2217	Sequence 2217, Ap	C 221	18.4	43.8	601	3	US-09-949-002-5522	Sequence 5522, Ap
C 149	18.8	44.8	1113	3	US-09-242-690A-40	Sequence 40, Appl	C 222	18.4	43.8	618	3	US-09-270-767-12778	Sequence 12778, A
C 150	18.8	44.8	1113	3	US-09-908-855-40	Sequence 40, Appl	C 223	18.4	43.8	636	3	US-09-328-111-370	Sequence 370, App
C 151	18.8	44.8	1131	3	US-09-248-796A-784	Sequence 784, App	C 224	18.4	43.8	652	3	US-09-669-751-8	Sequence 8, Appli
C 152	18.8	44.8	1335	3	US-09-248-796A-3880	Sequence 3880, Ap	C 225	18.4	43.8	1173	3	US-09-248-796A-3485	Sequence 3485, Ap
C 153	18.8	44.8	1623	4	US-09-605-703B-617	Sequence 617, App	C 226	18.4	43.8	1233	3	US-10-272-490-23	Sequence 23, Appl
C 154	18.8	44.8	1623	4	US-09-605-703B-619	Sequence 619, App	C 227	18.4	43.8	1484	3	US-09-91-181-292	Sequence 292, App
C 155	18.8	44.8	1665	3	US-09-489-039A-3370	Sequence 3370, Ap	C 228	18.4	43.8	1484	3	US-09-950-444-292	Sequence 292, App
C 156	18.8	44.8	2086	2	US-08-557-128-5	Sequence 5, Appli	C 229	18.4	43.8	1484	3	US-09-997-333-292	Sequence 292, App
C 157	18.8	44.8	2086	3	US-09-242-690A-37	Sequence 37, Appl	C 230	18.4	43.8	1484	3	US-09-992-598-292	Sequence 292, App
C 158	18.8	44.8	2086	3	US-09-908-855-37	Sequence 37, Appl	C 231	18.4	43.8	1983	3	US-09-453-702B-36	Sequence 36, Appl
C 159	18.8	44.8	3540	3	US-09-540-236-1612	Sequence 1612, Ap	C 232	18.4	43.8	2652	3	US-10-114-170-36	Sequence 36, Appl
C 160	18.8	44.8	8370	3	US-09-949-016-2337	Sequence 2337, Ap	C 233	18.4	43.8	2685	3	US-09-543-681A-2775	Sequence 2775, Ap
C 161	18.8	44.8	16998	3	US-09-949-016-14079	Sequence 14079, A	C 234	18.4	43.8	3152	3	US-09-614-221A-477	Sequence 477, App
C 162	18.8	44.8	34279	3	US-09-596-002-26	Sequence 26, Appl	C 235	18.4	43.8	3152	3	US-09-399-081A-7	Sequence 7, Appli
C 163	18.8	44.8	35629	3	US-09-949-016-15786	Sequence 15786, A	C 236	18.4	43.8	3624	3	US-09-489-039A-4347	Sequence 4347, Ap
C 164	18.8	44.8	58782	3	US-09-949-016-16851	Sequence 16851, A	C 237	18.4	43.8	3629	2	US-08-354-618-1	Sequence 1, Appli
C 165	18.8	44.8	72455	3	US-09-949-016-13793	Sequence 13793, A	C 238	18.4	43.8	3847	3	US-09-045-632-48	Sequence 48, Appl
C 166	18.8	44.8	75216	3	US-09-949-016-14061	Sequence 14061, A	C 239	18.4	43.8	8580	3	US-09-949-016-17224	Sequence 17224, A
C 167	18.8	44.8	89843	3	US-09-949-016-17207	Sequence 17207, A	C 240	18.4	43.8	51049	3	US-09-949-016-15571	Sequence 15571, A
C 168	18.8	44.8	89843	3	US-09-949-016-12346	Sequence 12346, A	C 241	18.4	43.8	54161	3	US-09-949-016-11905	Sequence 11905, A
C 169	18.8	44.8	89844	3	US-09-949-016-13656	Sequence 13656, A	C 242	18.4	43.8	60917	3	US-09-949-016-12638	Sequence 12638, A
C 170	18.8	44.8	104475	3	US-09-949-016-12115	Sequence 12115, A	C 243	18.4	43.8	60917	3	US-09-949-016-16057	Sequence 16057, A

C 244	18.4	43.8	85369	3	US-09-949-016-12171	Sequence 12171, A	C 317	18	42.9	601	3	US-09-949-016-143760	Sequence 143760, A
C 245	18.4	43.8	115814	3	US-09-949-016-16205	Sequence 16205, A	C 318	18	42.9	601	3	US-09-949-016-154464	Sequence 154464, A
C 246	18.4	43.8	124480	3	US-09-949-016-15921	Sequence 15921, A	C 319	18	42.9	601	3	US-09-949-016-195481	Sequence 195481, A
C 247	18.4	43.8	131860	3	US-09-949-002-730	Sequence 730, Appl	C 320	18	42.9	601	3	US-09-949-016-195482	Sequence 195482, A
C 248	18.4	43.8	135476	3	US-09-949-016-12611	Sequence 12611, A	C 321	18	42.9	601	3	US-09-949-016-195484	Sequence 195484, A
C 249	18.4	43.8	135476	3	US-09-949-016-14413	Sequence 14413, A	C 322	18	42.9	601	3	US-09-949-016-195485	Sequence 195485, A
C 250	18.4	43.8	193555	3	US-09-949-016-15553	Sequence 15553, A	C 323	18	42.9	601	3	US-09-949-002-7733	Sequence 7733, Appl
C 251	18.4	43.8	193555	3	US-09-949-016-15553	Sequence 15553, A	C 324	18	42.9	1023	3	US-09-492-709A-102	Sequence 102, Appl
C 252	18.4	43.8	193555	3	US-09-949-016-15555	Sequence 15555, A	C 325	18	42.9	1048	3	US-09-270-767-28098	Sequence 28098, A
C 253	18.2	43.3	428	3	US-09-533-559-947	Sequence 947, Appl	C 326	18	42.9	1629	3	US-09-602-777A-133	Sequence 133, Appl
C 254	18.2	43.3	495	3	US-09-020-956-94	Sequence 94, Appl	C 327	18	42.9	1647	3	US-09-270-767-12344	Sequence 12344, A
C 255	18.2	43.3	495	3	US-09-030-607-94	Sequence 94, Appl	C 328	18	42.9	1724	3	US-09-270-767-11642	Sequence 11642, A
C 256	18.2	43.3	495	3	US-09-439-313-94	Sequence 94, Appl	C 329	18	42.9	1839	3	US-09-252-991A-10857	Sequence 10857, A
C 257	18.2	43.3	495	3	US-09-352-616A-94	Sequence 94, Appl	C 330	18	42.9	2019	3	US-09-902-540-7069	Sequence 7069, Appl
C 258	18.2	43.3	495	3	US-09-232-149A-94	Sequence 94, Appl	C 331	18	42.9	2037	3	US-09-252-991A-4499	Sequence 4499, Appl
C 259	18.2	43.3	495	3	US-09-159-812-94	Sequence 94, Appl	C 332	18	42.9	2112	3	US-10-104-047-1145	Sequence 1145, Appl
C 260	18.2	43.3	495	3	US-09-636-215-94	Sequence 94, Appl	C 333	18	42.9	2130	3	US-10-104-047-904	Sequence 904, Appl
C 261	18.2	43.3	495	3	US-09-685-166A-94	Sequence 94, Appl	C 334	18	42.9	2190	3	US-09-036-582-37	Sequence 37, Appl
C 262	18.2	43.3	495	3	US-09-115-453-94	Sequence 94, Appl	C 335	18	42.9	2190	3	US-09-318-141-37	Sequence 37, Appl
C 263	18.2	43.3	495	3	US-09-688-489-94	Sequence 94, Appl	C 336	18	42.9	2366	3	US-08-767-026-6	Sequence 6, Appl
C 264	18.2	43.3	495	3	US-09-679-426-94	Sequence 94, Appl	C 337	18	42.9	2366	3	US-09-319-275A-6	Sequence 6, Appl
C 265	18.2	43.3	495	3	US-09-759-143-94	Sequence 94, Appl	C 338	18	42.9	2366	3	US-09-707-167-6	Sequence 6, Appl
C 266	18.2	43.3	495	3	US-09-651-236-94	Sequence 94, Appl	C 339	18	42.9	2493	3	US-09-252-991A-4346	Sequence 4346, Appl
C 267	18.2	43.3	495	3	US-09-030-606-94	Sequence 94, Appl	C 340	18	42.9	2544	3	US-09-235-451-33	Sequence 33, Appl
C 268	18.2	43.3	495	3	US-09-657-279-94	Sequence 94, Appl	C 341	18	42.9	2544	3	US-09-978-303-33	Sequence 33, Appl
C 269	18.2	43.3	495	3	US-10-012-896-94	Sequence 94, Appl	C 342	18	42.9	3033	3	US-09-614-221A-505	Sequence 505, Appl
C 270	18.2	43.3	526	3	US-09-621-976-2226	Sequence 2226, Appl	C 343	18	42.9	3061	3	US-09-949-016-4055	Sequence 4055, Appl
C 271	18.2	43.3	601	3	US-09-949-016-66151	Sequence 66151, A	C 344	18	42.9	3161	3	US-09-799-451-385	Sequence 385, Appl
C 272	18.2	43.3	601	3	US-09-949-016-73039	Sequence 73039, A	C 345	18	42.9	3263	3	US-09-949-016-1066	Sequence 1066, Appl
C 273	18.2	43.3	601	3	US-09-949-016-102574	Sequence 102574, A	C 346	18	42.9	3463	3	US-09-533-220A-1	Sequence 1, Appl
C 274	18.2	43.3	601	3	US-09-949-016-156013	Sequence 156013, A	C 347	18	42.9	3463	3	US-10-128-953-1	Sequence 1, Appl
C 275	18.2	43.3	840	3	US-09-489-039A-3595	Sequence 3595, Appl	C 348	18	42.9	3469	3	US-09-799-451-288	Sequence 288, Appl
C 276	18.2	43.3	840	3	US-09-489-039A-3595	Sequence 3595, Appl	C 349	18	42.9	3500	3	US-09-197-636-7	Sequence 7, Appl
C 277	18.2	43.3	1074	3	US-09-853-753-1	Sequence 1, Appl	C 350	18	42.9	4171	3	US-09-667-422-3	Sequence 3, Appl
C 278	18.2	43.3	2297	3	US-09-620-312D-290	Sequence 290, Appl	C 351	18	42.9	4171	3	US-10-246-435-3	Sequence 3, Appl
C 279	18.2	43.3	2523	3	US-10-104-047-1191	Sequence 1191, Appl	C 352	18	42.9	4182	3	US-10-246-435-2	Sequence 2, Appl
C 280	18.2	43.3	2654	3	US-09-949-016-2833	Sequence 2833, Appl	C 353	18	42.9	4182	3	US-10-246-435-1	Sequence 1, Appl
C 281	18.2	43.3	2713	3	US-09-700-227-1	Sequence 1, Appl	C 354	18	42.9	4203	3	US-10-246-435-1	Sequence 1, Appl
C 282	18.2	43.3	5181	3	US-09-949-016-16470	Sequence 16470, A	C 355	18	42.9	4803	3	US-09-197-636-1	Sequence 1, Appl
C 283	18.2	43.3	8112	3	US-09-949-016-13087	Sequence 13087, A	C 356	18	42.9	4803	3	US-09-938-291A-3	Sequence 3, Appl
C 284	18.2	43.3	22375	3	US-08-846-762-1	Sequence 1, Appl	C 357	18	42.9	5020	3	US-09-589-619-3	Sequence 3, Appl
C 285	18.2	43.3	24417	2	US-08-956-171E-56	Sequence 56, Appl	C 358	18	42.9	5020	3	US-09-902-540-631	Sequence 631, Appl
C 286	18.2	43.3	30246	3	US-08-781-986A-56	Sequence 56, Appl	C 359	18	42.9	5020	3	US-09-620-312D-248	Sequence 248, Appl
C 287	18.2	43.3	30246	3	US-09-949-016-14575	Sequence 14575, A	C 360	18	42.9	7453	3	US-09-620-312D-249	Sequence 249, Appl
C 288	18.2	43.3	32278	3	US-09-586-002-19	Sequence 19, Appl	C 361	18	42.9	7501	3	US-09-023-655-1463	Sequence 1463, Appl
C 289	18.2	43.3	33778	3	US-09-949-016-13692	Sequence 13692, A	C 362	18	42.9	7596	3	US-09-949-016-13937	Sequence 13937, A
C 290	18.2	43.3	36895	3	US-09-949-016-11829	Sequence 11829, A	C 363	18	42.9	13290	3	US-09-949-016-13938	Sequence 13938, A
C 291	18.2	43.3	44248	3	US-09-949-016-14485	Sequence 14485, A	C 364	18	42.9	13290	3	US-09-949-016-14339	Sequence 14339, A
C 292	18.2	43.3	44249	3	US-09-949-016-14491	Sequence 14491, A	C 365	18	42.9	16798	3	US-09-949-002-831	Sequence 831, Appl
C 293	18.2	43.3	44249	3	US-09-596-002-33	Sequence 33, Appl	C 366	18	42.9	26076	3	US-09-949-002-621	Sequence 621, Appl
C 294	18.2	43.3	63563	3	US-09-949-016-13394	Sequence 13394, A	C 367	18	42.9	29201	3	US-09-949-002-715	Sequence 715, Appl
C 295	18.2	43.3	82178	3	US-09-949-016-16369	Sequence 16369, A	C 368	18	42.9	29201	3	US-09-949-016-15797	Sequence 15797, A
C 296	18.2	43.3	136917	3	US-09-949-016-12881	Sequence 12881, A	C 369	18	42.9	34725	3	US-09-949-016-12808	Sequence 12808, A
C 297	18.2	43.3	197336	3	US-09-949-016-14376	Sequence 14376, A	C 370	18	42.9	34725	3	US-09-949-016-15577	Sequence 15577, A
C 298	18.2	43.3	197337	3	US-09-949-002-738	Sequence 738, Appl	C 371	18	42.9	36023	3	US-09-949-002-667	Sequence 667, Appl
C 299	18.2	43.3	197337	3	US-09-820-007-3	Sequence 3, Appl	C 372	18	42.9	51905	3	US-09-949-002-781	Sequence 781, Appl
C 300	18.2	43.3	213456	3	US-09-949-016-17272	Sequence 17272, A	C 373	18	42.9	51905	3	US-09-949-016-17563	Sequence 17563, A
C 301	18.2	43.3	234287	3	US-09-949-002-841	Sequence 841, Appl	C 374	18	42.9	71278	3	US-09-949-016-15773	Sequence 15773, A
C 302	18.2	43.3	234288	3	US-09-949-016-16101	Sequence 16101, A	C 375	18	42.9	71278	3	US-09-949-016-16068	Sequence 16068, A
C 303	18.2	43.3	237241	3	US-09-949-016-17037	Sequence 17037, A	C 376	18	42.9	71278	3	US-09-949-016-17383	Sequence 17383, A
C 304	18.2	43.3	260286	3	US-09-949-016-12106	Sequence 12106, A	C 377	18	42.9	89398	3	US-09-949-016-16319	Sequence 16319, A
C 305	18.2	43.3	260293	3	US-09-949-016-14139	Sequence 14139, A	C 378	18	42.9	90150	3	US-09-949-016-12565	Sequence 12565, A
C 306	18.2	43.3	332820	3	US-09-645-889-7	Sequence 7, Appl	C 379	18	42.9	90150	3	US-09-949-016-17064	Sequence 17064, A
C 307	18.2	43.3	332820	3	US-09-684-960A-7	Sequence 7, Appl	C 380	18	42.9	92681	3	US-09-949-016-11894	Sequence 11894, A
C 308	18.2	42.9	32	3	US-09-352-959-7571	Sequence 7571, Appl	C 381	18	42.9	112114	3	US-09-949-016-16723	Sequence 16723, A
C 309	18.2	42.9	32	3	US-09-605-703B-2641	Sequence 2641, Appl	C 382	18	42.9	112114	3	US-10-071-411A-63	Sequence 63, Appl
C 310	18.2	42.9	372	3	US-09-248-796A-3416	Sequence 3416, Appl	C 383	18	42.9	119930	3		
C 311	18.2	42.9	390	4	US-09-533-559-7571	Sequence 533-559-7571	C 384	18	42.9	119931	3		
C 312	18.2	42.9	398	3	US-09-252-991A-10836	Sequence 252-991A-10836	C 385	18	42.9	125336	3		
C 313	18.2	42.9	426	3	US-09-949-016-38770	Sequence 949-016-38770	C 386	18	42.9	136058	3		
C 314	18.2	42.9	558	3			C 387	18	42.9	136480	3		
C 315	18.2	42.9	601	3			C 388	18	42.9	157822	3		
C 316	18.2	42.9	601	3			C 389	18	42.9	168174	3		





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 (without alignments)  
 344.133 Million cell updates/sec

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 Perfect score: 42  
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Post-processing: Minimum Match 0%  
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 Listing first 500 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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C 4	42	100.0	121	6	US-10-307-005-110
5	42	100.0	411	8	US-10-486-595-1
6	42	100.0	1674	8	US-10-486-605-17
7	42	100.0	1674	8	US-10-486-605-19
8	42	100.0	1675	8	US-10-486-605-1
9	42	100.0	1677	8	US-10-486-605-23
10	40.4	96.2	42	9	US-10-805-973-10
11	40.4	96.2	42	9	US-10-805-973-16
12	40.4	96.2	42	9	US-10-805-973-17
13	40.4	96.2	511	8	US-10-486-595-3
14	40.4	96.2	1524	8	US-10-486-605-5
15	40.4	96.2	1524	8	US-10-486-605-7
16	40.4	96.2	1524	8	US-10-486-605-35
17	40.4	96.2	1672	8	US-10-486-605-3
18	40.4	96.2	1674	8	US-10-486-605-15
19	40.4	96.2	1674	8	US-10-486-605-21
20	40.4	96.2	1674	8	US-10-486-605-31
21	38.8	92.4	42	9	US-10-805-973-14
22	38.8	92.4	121	6	US-10-307-005-97
C 23	38.8	92.4	121	6	US-10-307-005-98

24	38.8	92.4	370	8	US-10-486-582-1	Sequence 1, Appli
25	38.8	92.4	1524	8	US-10-486-605-6	Sequence 6, Appli
26	38.8	92.4	1674	8	US-10-486-605-25	Sequence 25, Appli
27	38.8	92.4	1674	8	US-10-486-605-27	Sequence 27, Appli
28	38.8	92.4	1674	8	US-10-486-605-29	Sequence 29, Appli
29	38.8	92.4	1674	8	US-10-486-605-33	Sequence 33, Appli
30	37.8	90.0	370	8	US-10-486-582-3	Sequence 3, Appli
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32	36.4	86.7	498	8	US-10-486-595-5	Sequence 5, Appli
33	34.6	82.4	121	6	US-10-307-005-85	Sequence 85, Appli
C 34	34.6	82.4	121	6	US-10-307-005-86	Sequence 86, Appli
35	34	81.0	121	6	US-10-307-005-69	Sequence 69, Appli
C 36	34	81.0	121	6	US-10-307-005-70	Sequence 70, Appli
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C 40	34	81.0	121	6	US-10-307-005-254	Sequence 254, Appli
C 41	34	81.0	121	6	US-10-307-005-297	Sequence 297, Appli
C 42	34	81.0	121	6	US-10-307-005-298	Sequence 298, Appli
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44	34	81.0	182	6	US-10-258-842-12	Sequence 12, Appli
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53	34	81.0	528	6	US-10-258-842-16	Sequence 16, Appli
54	34	81.0	528	10	US-11-109-587-16	Sequence 16, Appli
55	34	81.0	1986	6	US-10-258-842-18	Sequence 18, Appli
56	34	81.0	1986	10	US-11-109-587-18	Sequence 18, Appli
57	33	78.6	121	6	US-10-307-005-81	Sequence 81, Appli
C 58	33	78.6	121	6	US-10-307-005-82	Sequence 82, Appli
C 59	33	78.6	121	6	US-10-307-005-265	Sequence 265, Appli
C 60	33	78.6	121	6	US-10-307-005-266	Sequence 266, Appli
61	32.4	77.1	1935	8	US-10-486-605-13	Sequence 13, Appli
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63	32.4	77.1	1935	10	US-11-075-808-6	Sequence 6, Appli
64	32.4	77.1	1986	6	US-10-258-842-14	Sequence 14, Appli
65	32.4	77.1	1986	10	US-11-109-587-14	Sequence 14, Appli
66	32.4	77.1	2279	6	US-10-258-842-4	Sequence 4, Appli
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69	32.4	77.1	2301	6	US-10-258-842-2	Sequence 2, Appli
70	32.4	77.1	2301	10	US-11-109-587-2	Sequence 2, Appli
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75	31.4	74.8	1660	8	US-10-425-115-94167	Sequence 94167, A
76	31.4	74.8	2216	7	US-10-425-114-4552	Sequence 4552, Ap
C 77	31.4	74.8	3382	8	US-10-425-115-94171	Sequence 94171, A
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79	30.8	73.3	1986	6	US-10-258-842-24	Sequence 24, Appli
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82	29.8	71.0	121	6	US-10-307-005-50	Sequence 50, Appli
83	29.8	71.0	121	6	US-10-307-005-125	Sequence 125, Appli
C 84	29.8	71.0	121	6	US-10-307-005-126	Sequence 126, Appli
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C 86	29.8	71.0	121	6	US-10-307-005-194	Sequence 194, Appli
C 87	29.8	71.0	121	6	US-10-307-005-281	Sequence 281, Appli
C 88	29.8	71.0	121	6	US-10-307-005-282	Sequence 282, Appli
C 89	29.8	71.0	496	8	US-10-425-115-116236	Sequence 116236, A
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92	28.2	67.1	121	6	US-10-307-005-53	Sequence 53, Appli
93	28.2	67.1	121	6	US-10-307-005-54	Sequence 54, Appli
94	28.2	67.1	121	6	US-10-307-005-181	Sequence 181, Appli
C 95	28.2	67.1	121	6	US-10-307-005-182	Sequence 182, Appli
96	28.2	67.1	121	6	US-10-307-005-209	Sequence 209, Appli





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C 390	19.2	45.7	521	4	US-09-925-065A-205390	Sequence 205390,	C 463	19	45.2	526	3	US-09-902-941-1212	Sequence 1212, Ap
C 391	19.2	45.7	522	4	US-09-925-065A-761574	Sequence 761574,	C 464	19	45.2	526	3	US-08-849-626-1212	Sequence 1212, Ap
C 392	19.2	45.7	536	4	US-09-925-065A-617409	Sequence 617409,	C 465	19	45.2	526	5	US-10-017-754-1212	Sequence 1212, Ap
C 393	19.2	45.7	547	5	US-10-027-632-2315	Sequence 2315, Ap	C 466	19	45.2	526	6	US-10-113-872-1212	Sequence 1212, Ap
C 394	19.2	45.7	547	5	US-10-027-632-2316	Sequence 2316, Ap	C 467	19	45.2	526	6	US-10-283-017-1212	Sequence 1212, Ap
C 395	19.2	45.7	547	6	US-10-027-632-2315	Sequence 2315, Ap	C 468	19	45.2	534	4	US-09-925-065A-567019	Sequence 567019,
C 396	19.2	45.7	547	6	US-10-027-632-2316	Sequence 2316, Ap	C 469	19	45.2	534	4	US-09-925-065A-567020	Sequence 567020,
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C 398	19.2	45.7	584	7	US-10-424-599-104820	Sequence 104820,	C 471	19	45.2	534	5	US-10-027-632-13017	Sequence 13017, A
C 399	19.2	45.7	582	8	US-10-653-047-7004	Sequence 7004, Ap	C 472	19	45.2	534	5	US-10-027-632-263939	Sequence 263939,
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C 402	19.2	45.7	598	5	US-10-027-632-226402	Sequence 226402,	C 475	19	45.2	534	6	US-10-027-632-13017	Sequence 13017, A
C 403	19.2	45.7	598	6	US-10-027-632-226402	Sequence 226402,	C 476	19	45.2	534	6	US-10-027-632-263939	Sequence 263939,
C 404	19.2	45.7	600	9	US-10-972-079-9426	Sequence 9426, Ap	C 477	19	45.2	534	6	US-10-027-632-263940	Sequence 263940,
C 405	19.2	45.7	600	9	US-10-972-079-9436	Sequence 9436, Ap	C 478	19	45.2	562	3	US-09-736-457-1177	Sequence 1177, Ap
C 406	19.2	45.7	600	9	US-10-972-079-96036	Sequence 96036, A	C 479	19	45.2	562	3	US-09-902-941-1177	Sequence 1177, Ap
C 407	19.2	45.7	606	8	US-10-425-115-126910	Sequence 126910,	C 480	19	45.2	562	3	US-09-849-626-1177	Sequence 1177, Ap
C 408	19.2	45.7	664	8	US-10-425-115-174992	Sequence 174992,	C 481	19	45.2	562	5	US-10-017-754-1177	Sequence 1177, Ap
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C 410	19.2	45.7	679	4	US-09-925-065A-772930	Sequence 772930,	C 483	19	45.2	562	6	US-10-283-017-1177	Sequence 1177, Ap
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C 421	19.2	45.7	1155	8	US-10-789-493-2	Sequence 2, Appli	C 494	19	45.2	607	4	US-09-925-065A-133848	Sequence 133848,
C 422	19.2	45.7	1278	7	US-10-425-114-11881	Sequence 11881, A	C 495	19	45.2	608	4	US-09-925-065A-452255	Sequence 452255,
C 423	19.2	45.7	1278	7	US-10-424-599-66337	Sequence 66337, A	C 496	19	45.2	609	4	US-09-925-065A-898405	Sequence 898405,
C 424	19.2	45.7	1298	8	US-10-425-115-126908	Sequence 126908,	C 497	19	45.2	611	4	US-09-925-065A-594016	Sequence 594016,
C 425	19.2	45.7	1618	6	US-10-369-493-36730	Sequence 36730, A	C 498	19	45.2	611	4	US-09-925-065A-594017	Sequence 594017,
C 426	19.2	45.7	1988	10	US-11-097-143-32129	Sequence 32129, A	C 499	19	45.2	612	4	US-09-925-065A-731692	Sequence 731692,
C 427	19.2	45.7	2577	9	US-10-450-763-28600	Sequence 28600, A	C 500	19	45.2	626	4	US-09-925-065A-507205	Sequence 507205,
C 428	19.2	45.7	2577	9	US-10-450-763-30207	Sequence 30207, A							
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C 430	19.2	45.7	2840	10	US-11-097-143-37459	Sequence 37459, A							
C 431	19.2	45.7	2853	9	US-10-450-763-21529	Sequence 21529, A							
C 432	19.2	45.7	4045	10	US-11-097-143-32128	Sequence 32128, A							
C 433	19.2	45.7	6027	8	US-10-775-920-5	Sequence 5, Appli							
C 434	19.2	45.7	6174	10	US-11-097-143-32125	Sequence 32125, A							
C 435	19.2	45.7	6588	8	US-10-775-920-4	Sequence 4, Appli							
C 436	19.2	45.7	6704	9	US-10-775-920-3	Sequence 3, Appli							
C 437	19.2	45.7	12354	9	US-10-893-671-26	Sequence 26, Appl							
C 438	19.2	45.7	12354	9	US-10-893-671-62	Sequence 62, Appl							
C 439	19.2	45.7	12354	9	US-10-893-671-75	Sequence 75, Appl							
C 440	19.2	45.7	42954	5	US-10-087-192-934	Sequence 934, App							
C 441	19.2	45.7	42954	5	US-10-087-192-934	Sequence 934, App							
C 442	19.2	45.7	42954	5	US-10-087-192-937	Sequence 937, App							
C 443	19.2	45.7	51193	9	US-10-737-089-46	Sequence 46, Appl							
C 444	19.2	45.7	51193	9	US-10-765-790-46	Sequence 46, Appl							
C 445	19.2	45.7	64135	7	US-10-322-281-489	Sequence 489, App							
C 446	19.2	45.7	68497	5	US-10-087-192-2047	Sequence 2047, App							
C 447	19.2	45.7	122923	5	US-10-087-192-268	Sequence 268, App							
C 448	19.2	45.7	149612	5	US-10-087-193-1960	Sequence 1960, App							
C 449	19.2	45.7	230101	8	US-10-719-993-6829	Sequence 6829, App							
C 450	19	45.2	318	9	US-10-779-543-11543	Sequence 11543, A							
C 451	19	45.2	350	3	US-09-777-564-1260	Sequence 1260, Ap							
C 452	19	45.2	350	5	US-10-015-219-1260	Sequence 1260, Ap							
C 453	19	45.2	353	7	US-10-424-599-85438	Sequence 85438, A							
C 454	19	45.2	393	3	US-09-814-353-21617	Sequence 21617, A							
C 455	19	45.2	394	8	US-10-425-115-55330	Sequence 55330, A							
C 456	19	45.2	407	7	US-10-424-599-62959	Sequence 62959, A							
C 457	19	45.2	407	3	US-09-814-353-5434	Sequence 5434, Ap							
C 458	19	45.2	409	3	US-09-814-353-11721	Sequence 11721, A							
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Post-processing: Minimum Match 0%

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5: /cgn2\_6/ptodata/2/pubnpa/US09\_NEW\_PUB\_seq.\*  
6: /cgn2\_6/ptodata/2/pubnpa/US10\_NEW\_PUB\_seq.\*  
7: /cgn2\_6/ptodata/2/pubnpa/US11\_NEW\_PUB\_seq.\*  
8: /cgn2\_6/ptodata/2/pubnpa/US11\_NEW\_PUB\_seq.\*  
9: /cgn2\_6/ptodata/2/pubnpa/US11\_NEW\_PUB\_seq.\*  
10: /cgn2\_6/ptodata/2/pubnpa/US11\_NEW\_PUB\_seq.\*  
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12: /cgn2\_6/ptodata/2/pubnpa/US11\_NEW\_PUB\_seq.\*  
13: /cgn2\_6/ptodata/2/pubnpa/US11\_NEW\_PUB\_seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	42	100.0	1788	11	US-11-152-903-7
2	42	100.0	1788	11	US-11-152-903-11
3	40.4	96.2	1788	11	US-11-152-903-1
4	40.4	96.2	1788	11	US-11-152-903-5
5	40.4	96.2	1788	11	US-11-152-903-9
6	38.8	92.4	1788	11	US-11-152-903-3
7	32.4	77.1	1403	7	US-10-509-121-35
8	32.4	77.1	2279	7	US-10-509-121-37
9	32.4	77.1	2294	7	US-10-509-121-5
10	32.4	77.1	2294	7	US-10-509-121-7
11	32.4	77.1	2300	7	US-10-509-121-3
12	32.4	77.1	2301	7	US-10-509-121-1
13	32.4	77.1	2301	7	US-10-509-121-38
14	31.4	74.8	1404	7	US-10-509-121-36
15	29.8	71.0	2024	11	US-11-079-122-14
16	28.2	67.1	2024	11	US-11-079-122-9
17	28.2	67.1	2024	11	US-11-079-122-10
18	26.6	63.3	2015	11	US-11-079-122-8
19	23	54.8	217623	11	US-11-112-908-33
20	22	52.4	1727	11	US-11-057-012-53
21	21.8	51.9	2100	8	US-11-072-512-688

22	21.8	51.9	3964	8	US-11-198-728-21	Sequence 21, Appl
23	21.8	51.9	3964	11	US-11-076-733-24	Sequence 24, Appl
c 24	21.8	51.9	8336	11	US-11-076-733-29	Sequence 29, Appl
c 25	21.8	51.9	8716	11	US-11-076-733-38	Sequence 38, Appl
c 26	21.8	51.9	8783	11	US-11-076-733-49	Sequence 49, Appl
c 27	21.8	51.9	8906	11	US-11-076-733-44	Sequence 44, Appl
c 28	21.8	51.9	8911	8	US-11-198-728-29	Sequence 29, Appl
c 29	21.8	51.9	8948	11	US-11-076-733-32	Sequence 32, Appl
c 30	21.8	51.9	8966	8	US-11-198-728-20	Sequence 20, Appl
c 31	21.8	51.9	8966	11	US-11-076-733-87	Sequence 87, Appl
c 32	21.8	51.9	9231	11	US-11-076-733-93	Sequence 93, Appl
c 33	21.8	51.9	9242	8	US-11-198-728-26	Sequence 26, Appl
c 34	21.8	51.9	9358	11	US-11-076-733-67	Sequence 67, Appl
c 35	21.8	51.9	9746	11	US-11-076-733-54	Sequence 54, Appl
c 36	21.8	51.9	9861	8	US-11-198-728-32	Sequence 32, Appl
c 37	21.8	51.9	9861	8	US-11-198-728-35	Sequence 35, Appl
c 38	21.8	51.9	9874	11	US-11-076-733-99	Sequence 99, Appl
c 39	21.8	51.9	9997	11	US-11-076-733-78	Sequence 78, Appl
c 40	21.8	51.9	189252	11	US-11-121-086-54	Sequence 54, Appl
c 41	21.4	51.0	1218	7	US-10-750-185-64727	Sequence 64727, A
c 42	21.4	51.0	1218	7	US-10-750-623-64727	Sequence 64727, A
c 43	21	50.0	1289	7	US-10-750-185-27772	Sequence 27772, A
c 44	21	50.0	1289	7	US-10-750-623-27772	Sequence 27772, A
c 45	21	50.0	134174	11	US-11-121-086-99	Sequence 99, Appl
c 46	20.2	48.1	1710	7	US-10-750-185-24794	Sequence 24794, A
c 47	20.2	48.1	1710	7	US-10-750-623-24794	Sequence 24794, A
c 48	20.2	48.1	137671	11	US-11-121-086-47	Sequence 47, Appl
c 49	19.8	47.1	182303	11	US-11-121-086-45	Sequence 45, Appl
c 50	19.6	46.7	1479	11	US-11-043-542-19	Sequence 19, Appl
c 51	19.6	46.7	2028	6	US-10-493-909-57	Sequence 57, Appl
c 52	19.6	46.7	2551	6	US-10-988-207-28	Sequence 28, Appl
c 53	19.6	46.7	4694	11	US-11-241-034-3	Sequence 3, Appl
c 54	19.6	46.7	156544	11	US-11-121-086-81	Sequence 81, Appl
c 55	19.4	46.2	991	7	US-10-750-185-40498	Sequence 40498, A
c 56	19.4	46.2	991	7	US-10-750-623-40498	Sequence 40498, A
c 57	19.4	46.2	2408	7	US-10-750-185-33836	Sequence 33836, A
c 58	19.4	46.2	2408	7	US-10-750-623-33836	Sequence 33836, A
c 59	19.4	46.2	26757	11	US-11-124-367A-5102	Sequence 5102, Ap
c 60	19.2	45.7	1152	7	US-10-858-730-254	Sequence 254, App
c 61	19.2	45.7	1256	7	US-10-750-185-33981	Sequence 33981, A
c 62	19.2	45.7	1256	7	US-10-750-623-33981	Sequence 33981, A
c 63	19.2	45.7	3356	11	US-11-136-527-2821	Sequence 2821, Ap
c 64	19.2	45.7	179666	11	US-11-121-086-67	Sequence 67, Appl
c 65	19	45.2	579	11	US-11-128-061-1659	Sequence 1659, Ap
c 66	19	45.2	579	11	US-11-128-061-5301	Sequence 5301, Ap
c 67	19	45.2	579	11	US-11-128-049-1659	Sequence 1659, Ap
c 68	19	45.2	579	11	US-11-128-049-5301	Sequence 5301, Ap
c 69	19	45.2	2917	7	US-10-750-185-57629	Sequence 57629, A
c 70	19	45.2	2917	7	US-10-750-623-57629	Sequence 57629, A
c 71	18.8	44.8	600	11	US-11-136-527-2727	Sequence 2727, Ap
c 72	18.8	44.8	1077	11	US-11-136-527-6823	Sequence 6823, Ap
c 73	18.8	44.8	79134	11	US-11-124-368A-2924	Sequence 2924, Ap
c 74	18.6	44.3	2201	7	US-10-995-561-53325	Sequence 53325, A
c 75	18.6	44.3	1151	7	US-10-750-185-31217	Sequence 31217, A
c 76	18.6	44.3	1151	7	US-10-750-623-31217	Sequence 31217, A
c 77	18.6	44.3	1990	8	US-11-072-512-809	Sequence 809, App
c 78	18.6	44.3	2236	7	US-10-750-185-53779	Sequence 53779, A
c 79	18.6	44.3	2236	7	US-10-750-623-53779	Sequence 53779, A
c 80	18.6	44.3	2244	8	US-11-072-512-1672	Sequence 1672, Ap
c 81	18.6	44.3	2788	7	US-10-750-185-50513	Sequence 50513, A
c 82	18.6	44.3	2788	7	US-10-750-623-50513	Sequence 50513, A
c 83	18.6	44.3	2866	7	US-10-750-185-64884	Sequence 64884, A
c 84	18.6	44.3	2866	7	US-10-750-623-64884	Sequence 64884, A
c 85	18.6	44.3	3251	7	US-10-750-185-31054	Sequence 31054, A
c 86	18.6	44.3	3251	7	US-10-750-623-31054	Sequence 31054, A
c 87	18.6	44.3	35101	7	US-10-995-561-13315	Sequence 13315, A
c 88	18.6	44.3	88421	11	US-11-205-109-1	Sequence 1, Appl
c 89	18.6	44.3	88421	11	US-11-121-086-60	Sequence 60, Appl
c 90	18.6	44.3	197781	11	US-11-112-908-34	Sequence 34, Appl
c 91	18.4	43.8	866	7	US-10-750-185-64689	Sequence 64689, A
c 92	18.4	43.8	866	7	US-10-750-623-64689	Sequence 64689, A
c 93	18.4	43.8	1830	7	US-10-750-185-50086	Sequence 50086, A
c 94	18.4	43.8	1830	7	US-10-750-623-50086	Sequence 50086, A







c 387	17.2	41.0	118996	11	US-11-121-086-84	Sequence 84, Appl	460	17	40.5	1611	11	US-11-156-003-21	Sequence 21, Appl
c 388	17.2	41.0	124972	11	US-11-121-086-100	Sequence 100, Appl	461	17	40.5	1611	11	US-11-156-003-22	Sequence 22, Appl
c 389	17.2	41.0	150468	7	US-11-112-908-56	Sequence 56, Appl	462	17	40.5	1619	7	US-10-750-185-40572	Sequence 40572, A
c 390	17.2	41.0	155989	11	US-11-121-086-57	Sequence 57, Appl	463	17	40.5	1619	7	US-10-750-623-40572	Sequence 40572, A
c 391	17.2	41.0	160213	11	US-11-121-086-103	Sequence 103, Appl	464	17	40.5	1629	11	US-11-156-003-4	Sequence 4, Appl
c 392	17.2	41.0	193789	11	US-11-112-908-55	Sequence 55, Appl	465	17	40.5	1629	11	US-11-156-003-17	Sequence 17, Appl
c 393	17.2	41.0	193789	11	US-11-112-908-55	Sequence 55, Appl	466	17	40.5	1629	11	US-11-156-003-18	Sequence 18, Appl
c 394	17.2	41.0	195235	7	US-10-995-561-13495	Sequence 13495, A	467	17	40.5	1629	11	US-11-156-003-19	Sequence 19, Appl
c 395	17.2	41.0	195130	7	US-10-995-561-13323	Sequence 13323, A	468	17	40.5	1629	11	US-11-156-003-20	Sequence 20, Appl
c 396	17.2	41.0	212716	11	US-11-121-086-95	Sequence 95, Appl	469	17	40.5	1650	11	US-11-156-003-6	Sequence 6, Appl
c 397	17.2	41.0	218821	11	US-11-121-086-31	Sequence 31, Appl	c 470	17	40.5	1733	11	US-11-124-367A-159	Sequence 159, Appl
c 398	17.2	41.0	1250000	7	US-10-995-561-13286	Sequence 13286, A	471	17	40.5	1817	11	US-11-124-367A-156	Sequence 156, Appl
c 399	17.2	41.0	1691140	11	US-11-091-018-1	Sequence 1, Appl	472	17	40.5	1864	7	US-10-750-185-49634	Sequence 49634, A
c 400	17	40.5	130	7	US-10-310-914A-15209	Sequence 15209, A	473	17	40.5	1864	7	US-10-750-623-49634	Sequence 49634, A
c 401	17	40.5	201	7	US-10-995-561-14063	Sequence 14063, A	474	17	40.5	1870	7	US-10-750-623-31067	Sequence 31067, A
c 402	17	40.5	201	7	US-10-995-561-14065	Sequence 14065, A	475	17	40.5	1870	7	US-10-750-623-31067	Sequence 31067, A
c 403	17	40.5	201	7	US-10-995-561-36439	Sequence 36439, A	476	17	40.5	1928	11	US-11-124-367A-155	Sequence 155, Appl
c 404	17	40.5	201	7	US-10-995-561-57288	Sequence 57288, A	477	17	40.5	2105	7	US-10-750-185-61162	Sequence 61162, A
c 405	17	40.5	201	7	US-10-995-561-77214	Sequence 77214, A	478	17	40.5	2105	7	US-10-750-623-61162	Sequence 61162, A
c 406	17	40.5	201	7	US-10-995-561-77217	Sequence 77217, A	479	17	40.5	2182	8	US-11-072-512-1130	Sequence 1130, Ap
c 407	17	40.5	201	7	US-10-995-561-77306	Sequence 77306, A	c 480	17	40.5	2580	8	US-11-072-512-1854	Sequence 1854, Ap
c 408	17	40.5	201	7	US-10-995-561-77308	Sequence 77308, A	481	17	40.5	2646	11	US-11-124-367A-158	Sequence 158, App
c 409	17	40.5	201	11	US-11-124-367A-3156	Sequence 3156, Ap	c 482	17	40.5	3003	11	US-11-094-917-13	Sequence 13, Appl
c 410	17	40.5	201	11	US-11-124-367A-3160	Sequence 3160, Ap	483	17	40.5	3126	11	US-11-136-527-474	Sequence 474, App
c 411	17	40.5	201	11	US-11-124-367A-3165	Sequence 3165, Ap	c 484	17	40.5	3735	11	US-11-052-554A-514	Sequence 514, App
c 412	17	40.5	201	11	US-11-124-367A-3170	Sequence 3170, Ap	c 485	17	40.5	4081	7	US-10-821-234-170	Sequence 170, App
c 413	17	40.5	201	11	US-11-124-367A-3177	Sequence 3177, Ap	486</						